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2 SITE MAPS IN SECTION 3

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L1250205005/Mason County
Prairieland Steel
ILD 005229497

CERCLA

Preliminary Assessment Report

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Fed Mer XR7
979354
IL.

Illinois Environmental Protection Agency
P.O. Box 19276,
Springfield, IL 62794-9276

SECTION 1

EXECUTIVE SUMMARY

CERCLA Preliminary Assessment Report

for

Prairieland Steel

ILD 005229497

INDEX

Executive Summary

Introduction

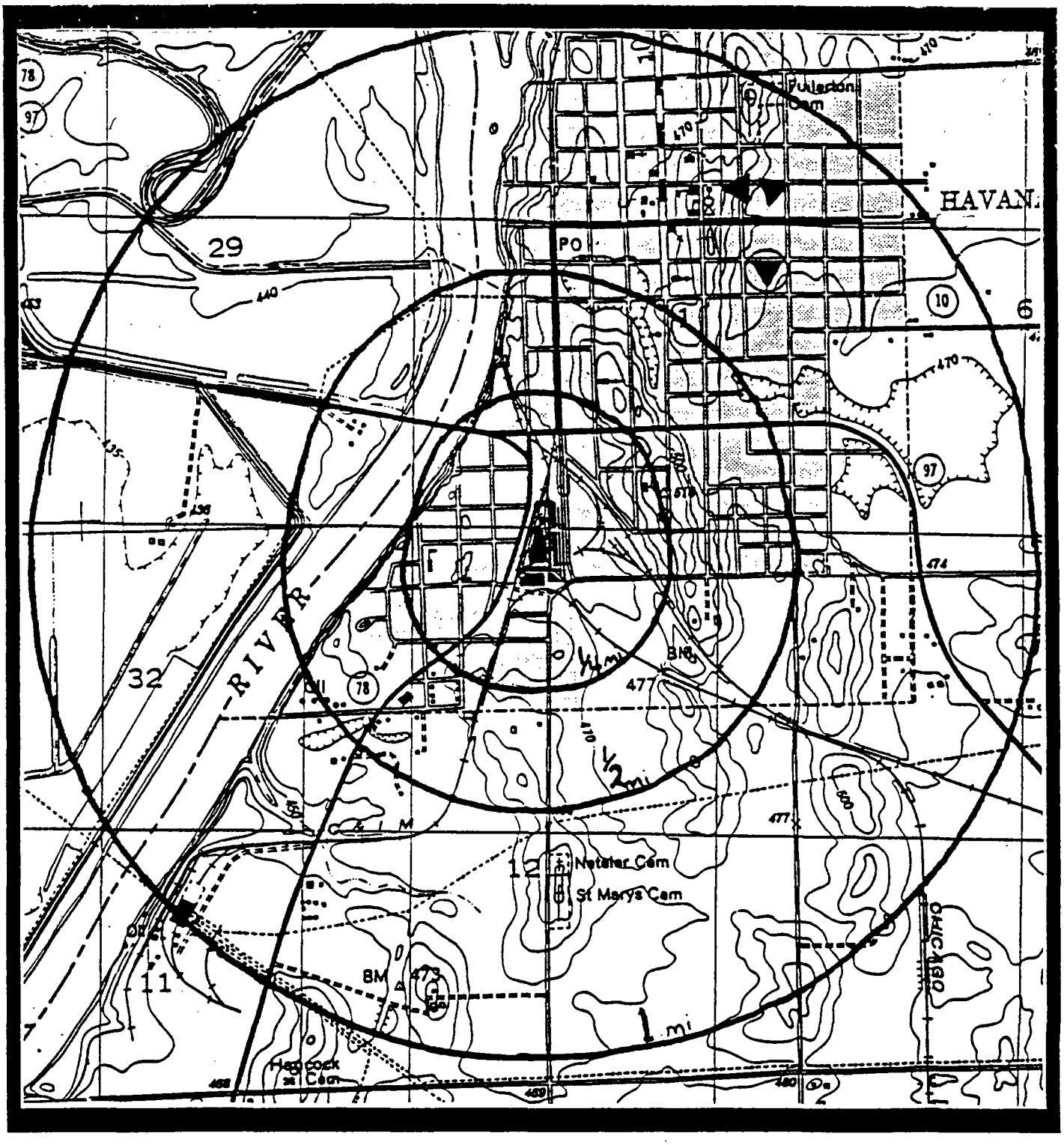
Illinois Environmental Protection Agency (IEPA) submitted Prairieland Steel (PLS) for site discovery as a result of several citizens complaints and numerous unresolved violations of the Resource Conservation and Recovery Act (RCRA). CERCLIS has the Site discovery dated August 3, 1991.

PLS is located south of Interstate 136 between Water and Schrader Streets in the city of Havana. Within this area of Havana, are other industrial and commercial enterprises. The address for PLS is 550 S. Pear Street. The legal description would include the site within the south one-half of Section 1, Township 21 north, Range 9 west of the Third Principle Meridian in Mason County. The triangularly shaped site encompasses about two acres upon which are approximately 25,000 square feet of building space.

The facility is bordered by the Chicago and Illinois Midland Railroad and Illinois Route 78 on the northwest, Walker Forge, Incorporated to the east, and Crescent Forge and Shovel to the south. A gravel alley separates the facilities east and south of PLS.

History

According to historic Sanborn Fire Insurance Maps, the site, located one mile southwest of the courthouse, was operated as the Havana Press Drill Works from prior to 1887, till the late 1800's. Sometime before the turn of the century, the site was transferred to the Havana Metal Wheel



SITE LOCATION

Company. The Illinois Secretary of State Corporation Registry did not have the date of incorporation for Havana Metal Wheel but listed the Illinois domestic corporation involuntary dissolved on June 29, 1948. The Sanborn Maps show that shortly after this time, the property was divided into two other manufacturing facilities. Prairie Steel Company obtained the property on the west side of Pear Street (now a gravel alley). Prairie Steel Company was incorporated as an Illinois domestic on December 12, 1959 and involuntarily dissolved May 1, 1986.

Mr. John Dupuy purchased Prairie Steel on October 25, 1985 to form PLS. The previous operator, Prairie Steel Company, was operated by Bixby-Zimmer Engineering Company in Galesburg, (Knox County) Illinois. Mr. John Dupuy is a former Bixby-Zimmer Engineering Company employee. Mr. David E. Vaughan, the former president of Prairie Steel Company was also a vice president at Bixby-Zimmer Engineering Company.

The facility notified the Agency as Prairie Steel, Inc., a generator of hazardous waste CERCLA 103(c) on August 18, 1980. Mr. David E. Vaughan signed the RCRA Part A permit application submitted by Prairie Steel on October 10, 1980. The Part A noted Prairie Steel, Inc. as a storage facility of K063 (de-listed wastewater) @ 8,600,000 pounds/year). IEPA inspected the facility twice in 1981 and determined the facility to be a small quantity generator. However, 1990 IEPA inspections have shown the site to be a large quantity generator operating as an illegal hazardous waste storage

facility.

Operations

PLS re-draws ferrous wire. The following processes are done at the site:

Re-die Process (wire drawing) -- Raw material stock 304 and 316 stainless steel wire are drawn through dies to give the wire the desired shape and thickness. Electric motors are used to pull the wire through the redraw device. Soap flakes are used as a lubricant in this process. Prior to June, 1990, lead dross was used as the lubricant. The recent addition of a Turks-Head device now allows PLS to redraw without a lubricant. It takes the wire multiple passes through the devices to reach the desired thickness and shape required of the final product.

Wire Cleaning -- Wire is cleaned in a three to one dilute mixture of nitric acid. The wire is cleaned in a dip tank system. The system includes one 1500 - 2000 gallon acid tank and one 1000 gallon tank. Several other tanks and a tank containing overflow have also been used in this area. The Prairie Steel operation (the previous owner/operator hereafter referred to as OPS) cleaned the wire between each pass through the drawing process. OPS also cleaned the wire in 1,1,1-trichloroethane (1,1,1-TCE) before the finish pass. According to Mr. Dupuy, PLS has eliminated the 1,1,1-TCE cleaner. PLS is using a "quick clean" for every pass before the acid bath. PLS passes through the Turks-Head do not require pre-cleaning or lubrication according to Mr. Dupuy.

This has been eliminated much of the wire cleaning required by the facility. Also, instead of putting the wire through a cold water rinse, PLS uses a steam cleaner.

Annealing -- Wire is heated in an electric furnace while subjected to a ammonia atmosphere. This soften the steel and enables the wire to be malleable when reworked.

Cooling -- Wire is run through a non-contact cooling system. This enables the wire to better use the flux tank and more easily adhere to the lead from the lead pot

Flux Tank -- Wire is run through a flux tank containing ammonia chloride and water. This process enables the lead from the lead pot process to better adhere to the wire.

Lead Pot Process -- Drops of lead are put on the wire to act as a lubricant. Wire is wound by being pulled by a spool during this process. This is currently done only before the finish or final pass. OPS bought pre-lead-coated wire and coated the wire between each of the four to six passes, according to Mr. Dupuy. He also said that the wire required more passes because OPS used only one size stock wire to make even the smaller sized finished wire.

Maintenance -- Hydraulic fluids in fork lift trucks are changed on site. Other small equipment and site repair jobs are conducted by facility personnel. Major and electrical repairs are contracted out to businesses such as Griffin Electric for electrical work.

Degreasing of parts with 1,1,1-TCE solvent was done on site. According to Mr. Dupuy, the solvent was filtered and

reused on site when it became to soiled for degreasing. IEPA inspectors found no spent filters on site. Mr. Dupuy stated the use of this solvent has been discontinued.

Waste Treatment -- According to Mr. Dupuy, waste lead contaminated soap left on site from OPS is run through a vibrating screen to separate spent soap clumps into usable and unusable materials. Mr. Dupuy said that he can reclaim about one barrel of lubricant soap per three barrels of the spent waste soap.

Wastes Generated At PLS

Waste acid (D002, D008 - undetermined) -- This waste is generated when the nitric acid dip tanks are changed. Mr. Dupuy stated the tank is changed about once a year when the acid becomes weak. He also said the waste is hauled off-site for treatment. The last time this was done was January 19, 1988 according to IEPA's manifest search in June, 1990. The waste was sent of Envirite Corporation in two shipments. One shipment contained 3,848 gallons and the other contained 2,505 gallons.

Waste rinse water (D002, D008) -- This waste is generated when the post-nitric acid dip water rinse tanks are changed. During the June, 1990 IEPA inspection, the rinse tank adjacent to the acid tank was overflowing and running down the drain located between the acid tank and the rinse tank. Mr. Dupuy stated that this tank is also changed about once a year and the last off-site shipment left with the waste nitric acid. Both the waste acid and the waste rinse

water were listed as KO63 the RCRA Part A.

Waste lubricant soap (D008) -- This waste is generated by the wire drawing/dieing process as spent contaminated lubricant. The soap becomes contaminated with lead. The waste analysis conducted by Federal Environmental Services, indicates the material is hazardous due to lead toxicity. This waste is collected in small plastic containers near the points of generation. This waste is run through a vibration screen device which reclaims about one third of the material for reuse. The vibrating screen brakes up the large chunks of lead contaminated soap flakes. Contaminated dust results from this process.

An unknown amount (greater than 500 gallons as noted by the November, 1990 IEPA inspection) of the reclaimed lead contaminated soap has been placed in the back room of the facility. PLS also stores full drums of the not yet reclaimed soap (from both OPS and PLS) in the back room. The waste lubricant soap may or may not have been included in RCRA Part A application listing of KO63.

Waste solvent (F001) -- This waste was generated by changing the 1,1,1-TCE solvent in the small parts washer once used at the facility. The solvent in the parts washer was filtered and reused according to Mr. Dupuy. IEPA's manifest search found that a waste bearing the some hazardous waste number was shipped off-site on April 27, 1989. During the same inspection, IEPA saw between 55-200 gallons of this waste stored in the back room.

Lead Dross (D008 - undetermined) -- Lead dross is generated by the lead pot process. The dross is accumulated in 55 gallon drums. Full drums, amounting to over 500 gallons have been placed in the back room.

Waste material from previous operator (D008, F001 and undetermined) -- This waste was generated by the previous operator and includes all of the previously noted wastes other than the acid wastes, along with a waste grease type lubricant and other unknown wastes. According to Mr. Dupuy, this waste was left there by the previous owner/operator prior to his acquisition. IEPA inspectors have been unable to determine the quantity of these wastes.

Waste Oils (non-hazardous) -- waste oils are accumulated in 55 gallon drums in the back room. The disposition of this waste is unknown.

Waste contaminated rainwater -- According to Mr. Dupuy, the process area roof leaks so badly when it rains that an electric sump is needed to remove this liquid. A broom is used to help move the water which accumulates at a low spot where it is collected by the pump. The low area of the floor is near the lead pot and is visibly dirty. The waste contaminated water is pumped into a drain.

Other wastes (undetermined) -- These wastes include waste sand like material found in a room in the side building/tunnel area, waste liquid in tanks 10 and 11, waste soapy material from waste lead contaminated soap screening process and the waste discharge to the drain located near the

acid wash and rinse tanks.

The complaint that prompted IEPA's follow-up inspection, alleged that wastes from the wash and dip tanks were dumped down the drains and that wastes were dumped outside the facility.

During the 1990 IEPA inspection at PLS, samples of the undetermined wastes along with some of the various other wastes streams were collected and analyzed. The results indicated that hazardous wastes constituents were detected in sufficient quantities to classify these wastes as hazardous. Based on the results, hazardous wastes were found to be stored in the back room, the side room next to the back room (more drums), the mill area and the basement area. The wastes include 1,1,1-TCE, 1,1-dichloroethene, 1,2-dichloroethane, cis-1,2-dichloroethene, trichloroethene, styrene, methylene chloride, 4-methyl-2-pentanone (MIBK), tetrachloroethene, xylene, and Toxicity Characteristics Leaching Procedure (TCLP) quantities of lead and chromium. Some of the wastes were also toxic due to pH. The inspections also noted that lead contaminated soap dust, spread throughout the facility, was being washed down the drains.

Reconnaissance Visit

On January 21, 1992, personnel from IEPA's Pre-Remedial Unit conducted a CERCLA Preliminary Assessment site reconnaissance of PLS. The reconnaissance team consisted of Sheila Murphy and Tim Murphy. Jan Dupuy, a facility worker

and the son of PLS owner/president, gave us the facility tour.

Jan Dupuy said that white soap and non-hazardous caustic cleaner (Tristate Industrial Lubricants - Skokie, IL) is now used to dip the wire prior to being redrawn. The wire used has "Precoat 640" (from Philadelphia, PA). Jan Dupuy also stated that no wastes have left the site since IEPA's November, 1990 inspection.

The IEPA reconnaissance team observed a well and several drains inside the mill area. The well is currently used for non-contact cooling water according to Jan Dupuy. The reconnaissance team also viewed the sample locations and waste storage areas previously documented by other IEPA personnel. Most of the facility's waste drums were still located in the back room. Photos were taken throughout the tour and are available in Section 4 of this report.

Outside the buildings, the site borders were observed. A open area east of the alley on Walker Forge Incorporated property has been used in the past by all three industries to pile up junk and burn ignitable debris. This area had been cleared of the junk and the stained soil beneath exposed. Surface soil contamination may exist in this off-site area.

After the PLS reconnaissance, this author meet with Mr. Gary Zaborac of the County Health Department. Mr. Zaborac explained that the Health Department had not received any complaints regarding PLS.

Migration Pathways

According to the Illinois State Water Survey, sand and gravel deposits underlying Mason County constitute one of the largest aquifers in Illinois. This area is a wide bedrock lowland that was formed at the confluence of the ancient Mississippi and Mohomet Rivers and is now buried beneath a thick mantle of glacial deposits, mainly sand and gravel.

The deposits include ancient stream fill and later glacial outwash that poured down the Illinois River Valley. Near Havana, the deposits range in thickness from about 100 to 150 feet and are composed of sand and gravel from land surface to the underlying bedrock units. In the upland areas, the glacial materials range in thickness from about 200 to 300 feet and are composed of sand and gravel at the base overlain by glacial till.

Pennsylvanian and Mississippian age rocks underlie the glacial deposits and are not generally developed as a source for groundwater. Rocks beneath the Mississippian units contain water that is too highly mineralized for most purposes.

The city of Havana (population 3,610 via 1990 Census) installed a public supply in 1889. According to Rick Noble at the Water Operations Plant, the city uses three wells that supply approximately 1600 services. Wells #2 and #4 are near the Havana Water Plant located on the block at the northeast corner of the intersection of E. Main and High Streets. Well #5 is located at the Chester Youth Center in Rice Park, between E. Adams and E. Washington Streets on S. Promenade

Street. Well #4 is the primary well with #2 as back-up and #5 on stand-by for occasional use. Well #5 is closest to PLS at 3500 feet east-northeast of the site. Wells #2 and #4 are located about 4000 feet northeast of the site.

All three wells were finished in sand and gravel. Well #2 was completed in 1942 to a depth of 85 feet. Well #4, was completed in 1960 to a depth of 78 feet. Well #5, was completed in 1974 to a depth of 96 feet. The drillers log of Well #5 follows.

Havana Public Well #5

Stata	Thickness	Depth
sand, brown, fine	10 ft	10 ft
sand, tan, fine	5 ft	15 ft
sand, tan, medium fine	5 ft	20 ft
sand, tan, fine	5 ft	25 ft
sand, tan, medium	5 ft	30 ft
sand, tan, fine	5 ft	35 ft
sand, tan, medium fine	10 ft	45 ft
sand, gray, coarse	5 ft	50 ft
sand, gray, very coarse	5 ft	55 ft
sand, gray, coarse	10 ft	65 ft
sand, gray, medium coarse	10 ft	75 ft
sand, gray, medium	20 ft	95 ft
sand, gray, medium w/cobbles to 3"	1.5 ft	96.5 ft

IEPA's Division of Public Water Supplies sampled raw water from the three Havana wells in 1986. The analysis found no organic contamination with levels of Manganese and Iron (as expected for this area) above the standards. Recent quarterly sampling (since 1990) has showed no contamination in well #4 as part of the USGS trend site monitoring program (trends in groundwater quality representative of the aquifers of the state, the criteria being a clean public well with a good well log). The Department of Public Health (IDPH)

maintains a list of non-communuty supply wells. These are wells in service at least 60 days per year and supply at least 15 connections or 25 people and serve non-residents (schools, industries, restaurants or campgrounds). According to IDPH's list, there are ten non-community wells in Havana and Quiver Township and another five in Matanzas Beach, less than four miles southwest of the site.

Because of the age of the USGS Topographic Maps in the Havana area (1947), house counts from more recent Mason and Fulton County Maps (1985) were obtained. 1990 Census data shows that 2.56 persons per household live in Fulton County while 2.57 persons per household live in Mason County. 2.565 was used as the multiple for estimating the number of people on private wells. The following table shows the approximate number of people in each concentric circle, that are suppled by private wells. Area well logs have been supplied in Section 5 of this report.

Circle	Homes	People	Total
0 - 1/2 mile	0	0	0
>1/2 - 1 mile	2	5	5
>1 - 2 miles	19	49	54
>2 - 3 miles	44	113	167
>3 - 4 miles	46	118	285

The on-site production well may also be used as a drinking water source by PLS workers. Mr. Dupay probably uses the well for drinking and other domestic needs as he lives on-site.

Although PLS is close to the Illinois River, the Flood Insurance Rate Maps indicate that this site is located in Zone C, outside of the 500-year flood boundary.

Much of the site run-off enters on-site sewer and storm drains that flow to the Havana Sanitary Treatment Works. From the treatment plant, effluent flows into the Illinois River. Routine plant influent sampling by IEPA's Division of Water Pollution Control (WPC) has revealed no abnormal waste characteristics that would be exclusively associated with PLS.

An IEPA WPC inspector has noted that the several of the facility drains are of unknown destination. It is unclear whether or not these drains are flowing to the treatment plant. Since the Illinois River is only three and one half blocks west of PLS, it may be that in the facility's early existence, french drains were built to carry wastewater to the river.

According to IEPA's Division of Public Water Supplies, the only Illinois River surface water intake, is located in Peoria, upstream of Havana. Despite no municipal intakes, the Havana stretch the Illinois River is highly valued for other reasons. The Illinois Department of Conservation (IDOC) has listed the Illinois River at Havana as an important fishery and recreational area. Also, there is a large area of nearby wetlands associated with the River. Wetland habitat is so abundant that the Havana schools are nicknamed "Ducks". Because the drainage from PLS is in

question (hazardous wastes are routinely washed down the drains of unknown destination), the site may impact the significant surface water resources.

There may be a potential for PLS to impact the air pathway. Lead contaminated dust and waste soap was observed throughout the facility. There are holes in the facility's roof which could release the small amounts of contaminated dust and soap. Hazardous wastes were also alleged to have been piled up outside the facility. The pile is gone but possible contaminated soil residues could become airborne.

Exposure to PLS's hazardous wastes and potentially contaminated soil is limited by a fence around the facility. "Keep Out" signs are located at the gates. Mr. Dupuy claims to maintain site security as he resides in the house/office building at the north end of the site. IEPA inspectors have noticed that each time they have driven past the site, the gates have been open and unattended. Tighter security would be needed in order to completely restrict access and render the soil exposure pathway insignificant.

Conclusion

The major concern at this site is the groundwater and surface water route for human and environmental exposure. However, the distance (3500 feet east-northeast) of the wells from the site would nullify the site's potential threat to this pathway's targets. A hazardous waste release to the Illinois River is a distinct possibility if french drains are located on-site. Because hazardous substances are documented

throughout the buildings on-site and there has been an allegation of dumping on the ajacent property, this author recommends a Screening Site Inspection (SSI) to further investigate Prairieland Steel.

It is also recommended that USEPA's Emergency Response Unit consider the site for a potential removal action for several reasons. Mr. Dupuy has made no attempt to properly rid PLS of it's hazardous waste, plus, Mr. Dupuy financial status puts him at odds of being able to pay for disposal costs.

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Lutz, Richard W., Illinois Department of Conservation, Division of Planning, Impact Analysis Section Supervisor, August 29, 1992 correspondence.

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SECTION 2

EPA FORM 2050-0095

"Potential Hazardous Waste Site Preliminary Assessment Form"

OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

EPA Potential Hazardous Waste Site Preliminary Assessment Form

Identification

State: IL | CERCLIS Number: ILD 005229497

Transmittal letter 5/3/91
CERCLIS Discovery Date: DS1 08/03/91

1. General Site Information

Name:	Street Address:				
Prairieland Steel	550 S. Pear				
City:	**State:**	**Zip Code:**	**County:**	**Co. Code:**	**Cong. Dist:**
Havana	Illinois	62664	Mason	125	18

Latitude:	Longitude:	Approximate Area of Site:	Status of Site:
40° 17' 30.0"	090° 03' 58.0"	2 Acres 25,000 Square Ft	■ Active ☐ Not Specified ☐ Inactive ☐ NA (GW plume, etc.)

2. Owner/Operator Information

Non-Responsive

Operator: Same as owner

Street Address:

City:

State: | Zip Code: | Telephone: ( )

Type of Ownership:
- ■ Private
- ☐ Federal Agency — Name _____
- ☐ State
- ☐ Indian
- ☐ County
- ☐ Municipal
- ☐ Not Specified
- ☐ Other _____

How Initially Identified:
- ☐ Citizen Complaint
- ☐ PA Petition
- ☐ State/Local Program
- ■ RCRA/CERCLA Notification
- ☐ Federal Program
- ☐ Incidental
- ☐ Not Specified
- ☐ Other _____

3. Site Evaluator Information

Name of Evaluator:	Agency/Organization:	Date Prepared:
Tim Murphy	Illinois EPA	8-18-92

Street Address: 2200 Churchill Rd. P.O. Box 19276 | City: Springfield | State: IL

Name of EPA or State Agency Contact: Same as above | Street Address:

City: | State: | Telephone: ( )

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation:
- ☐ Yes
- ☐ No
- Date: _____

CERCLIS Recommendation:
- ☐ Higher Priority SI
- ☐ Lower Priority SI
- ☐ NFRAP
- ☐ RCRA
- ☐ Other _____
- Date: _____

Signature:

Name (typed):

Position:

EPA **Potential Hazardous Waste Site**
Preliminary Assessment Form - Page 3 of 4

CERCLIS Number: ILD 005229497

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles:
■ Yes
☐ No

Type of Drinking Water Wells Within 4 Miles (check all that apply):
■ Municipal
■ Private
☐ None

Is There a Suspected Release to Ground Water:
■ Yes
☐ No

Have Primary Target Drinking Water Wells Been Identified:
☐ Yes
■ No

If Yes, Enter Primary Target Population:
_____ People

Depth to Shallowest Aquifer:
20 Feet

Karst Terrain/Aquifer Present:
☐ Yes
■ No

Nearest Designated Wellhead Protection Area:
☐ Underlies Site
■ >0 - 4 Miles
☐ None Within 4 Miles

List Secondary Target Population Served by Ground Water Withdrawn From:

0 - ¼ Mile	0
> ¼ - ½ Mile	0
> ½ - 1 Mile	3,615
> 1 - 2 Miles	49
> 2 - 3 Miles	113
> 3 - 4 Miles	118
Total Within 4 Miles	285

House count from Fulton + Mason County Maps
1990 Census a 2.56 + 2.57 people/house

8. Surface Water Pathway

Type of Surface Water Draining Site and 15 Miles Downstream (check all that apply):
☐ Stream ■ River ☐ Pond ☐ Lake
☐ Bay ☐ Ocean ☐ Other _____

Shortest Overland Distance From Any Source to Surface Water:
N/A Feet — Site drains to WWTP
_____ Miles

Is There a Suspected Release to Surface Water:
☐ Yes
■ No

Site is Located in:
☐ Annual - 10 yr Floodplain
☐ > 10 yr - 100 yr Floodplain
☐ > 100 yr - 500 yr Floodplain
■ > 500 yr Floodplain

FIRM Zone C

Drinking Water Intakes Located Along the Surface Water Migration Path:
☐ Yes
■ No

Have Primary Target Drinking Water Intakes Been Identified:
☐ Yes
■ No

If Yes, Enter Population Served by Primary Target Intakes:
N/A People

List All Secondary Target Drinking Water Intakes:

Name	Water Body	Flow (cfs)	Population Served
N/A			

Total within 15 Miles _____

Fisheries Located Along the Surface Water Migration Path:
■ Yes
☐ No

Have Primary Target Fisheries Been Identified:
☐ Yes
■ No

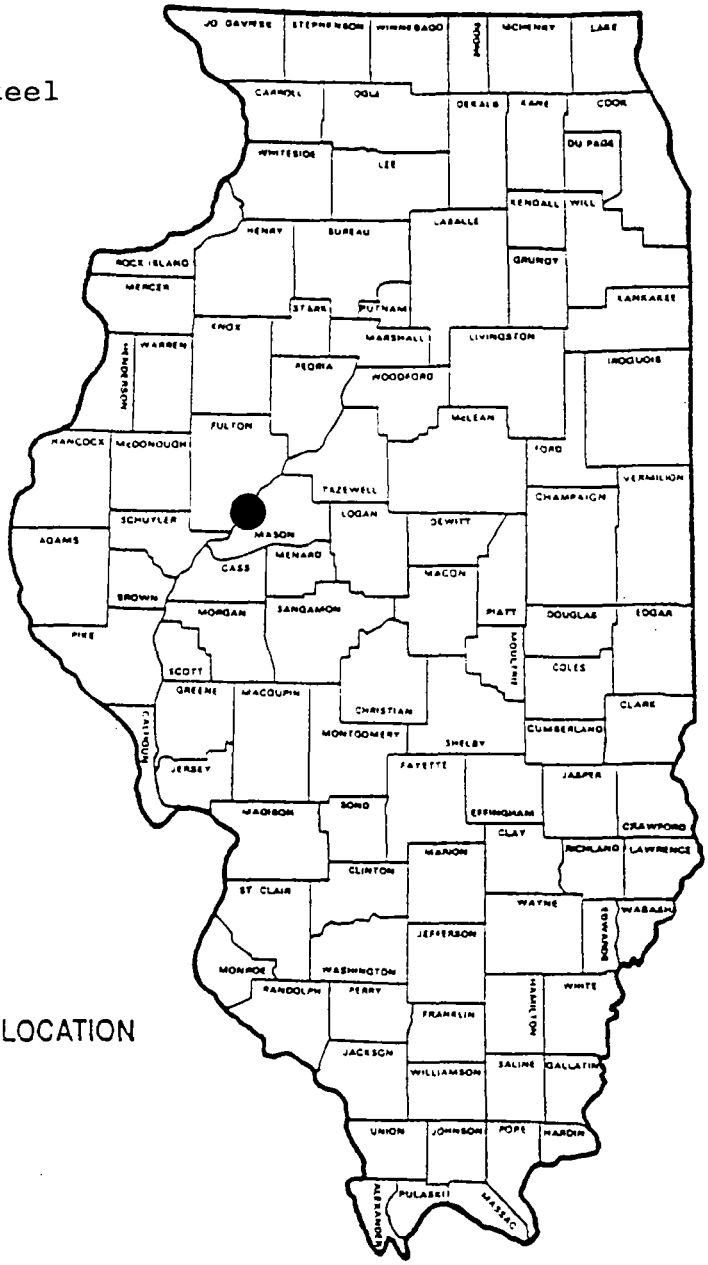
List All Secondary Target Fisheries:

Water Body/Fishery Name	Flow (cfs)
Illinois River	19,464

SECTION 3

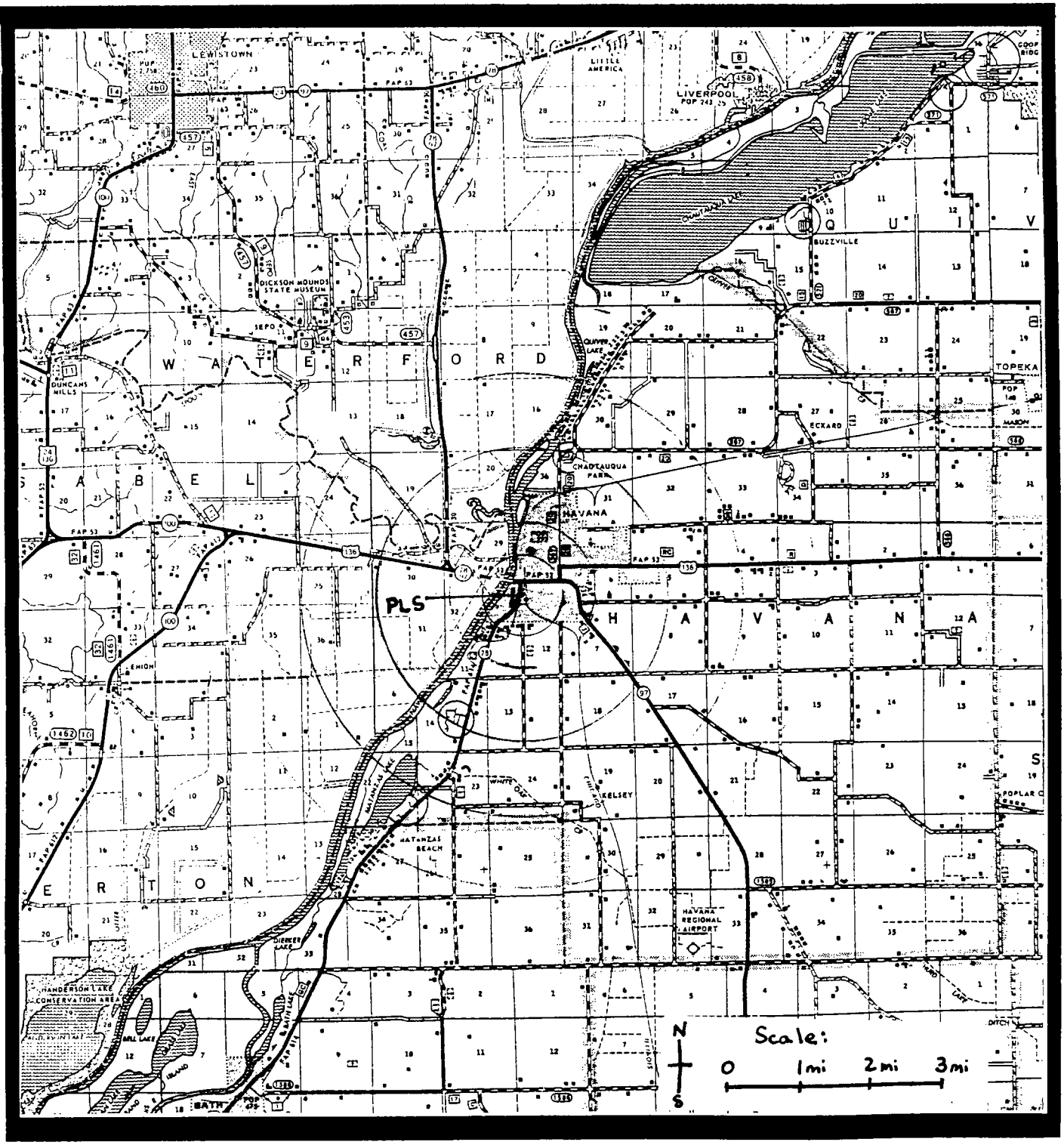
MAPS

Prairieland Steel

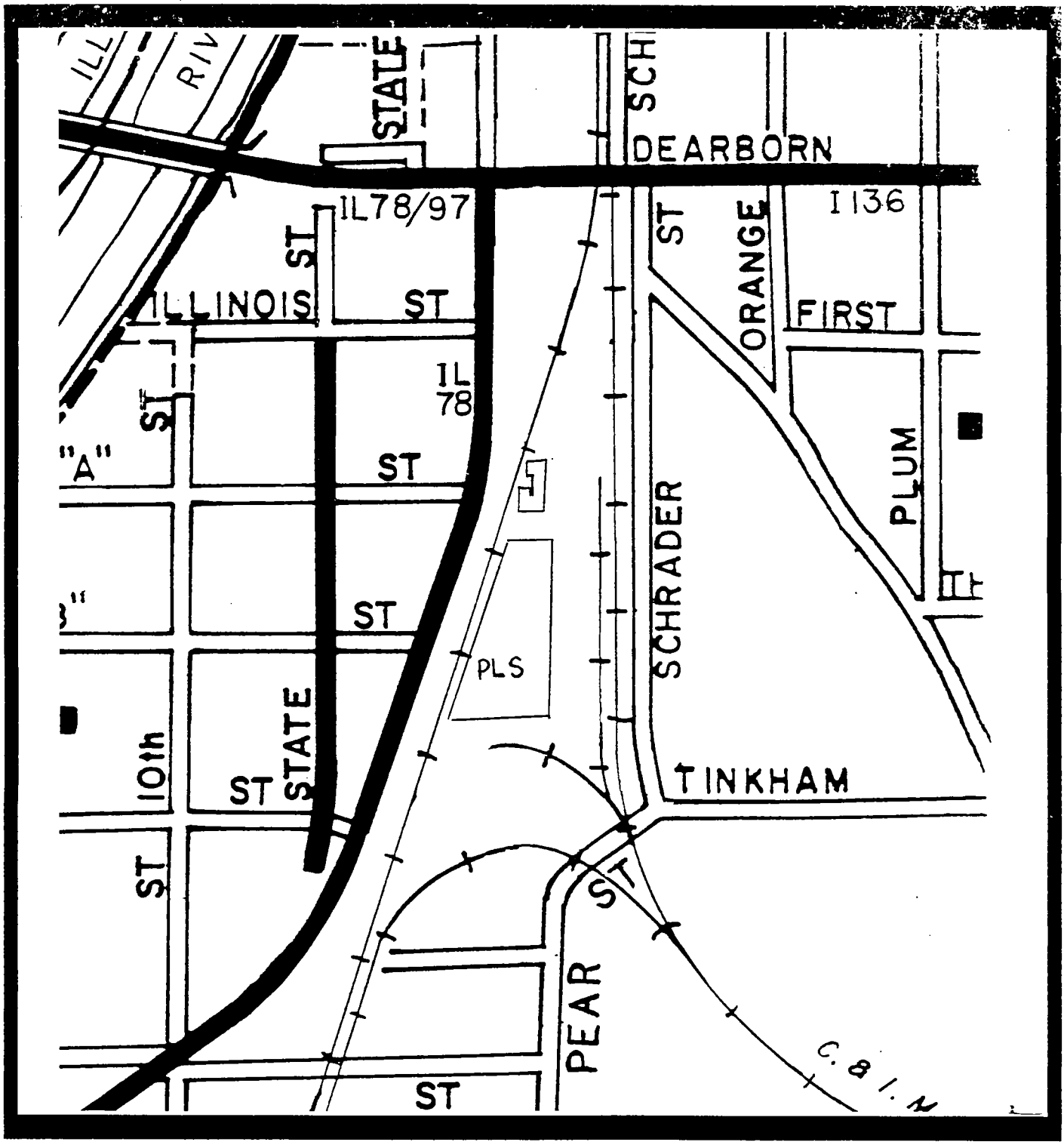


SITE LOCATION

State Map



Regional Area Map



Local Area Map

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	SITE: Prairieland Steel SITE ILD ~~0259920069~~ 0052294 97

USGS TOPOGRAPHIC MAPS

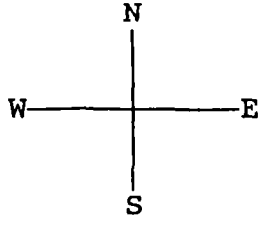
NAME: Duncan Mills, IL NUMBER: 127C DATE: 1948	NAME: Havana, IL NUMBER: 127D DATE: 1947
NAME: Biggs, IL NUMBER: 140B DATE: 1971	NAME: Topeka, IL NUMBER: 126C DATE: 1982
NAME: Bath, IL NUMBER: 139B DATE: 1981	NAME: Kilbourne, IL NUMBER: 139A DATE: 1981

Site Location

Nearest Well

Public Wells

QUADRANGLE LOCATION



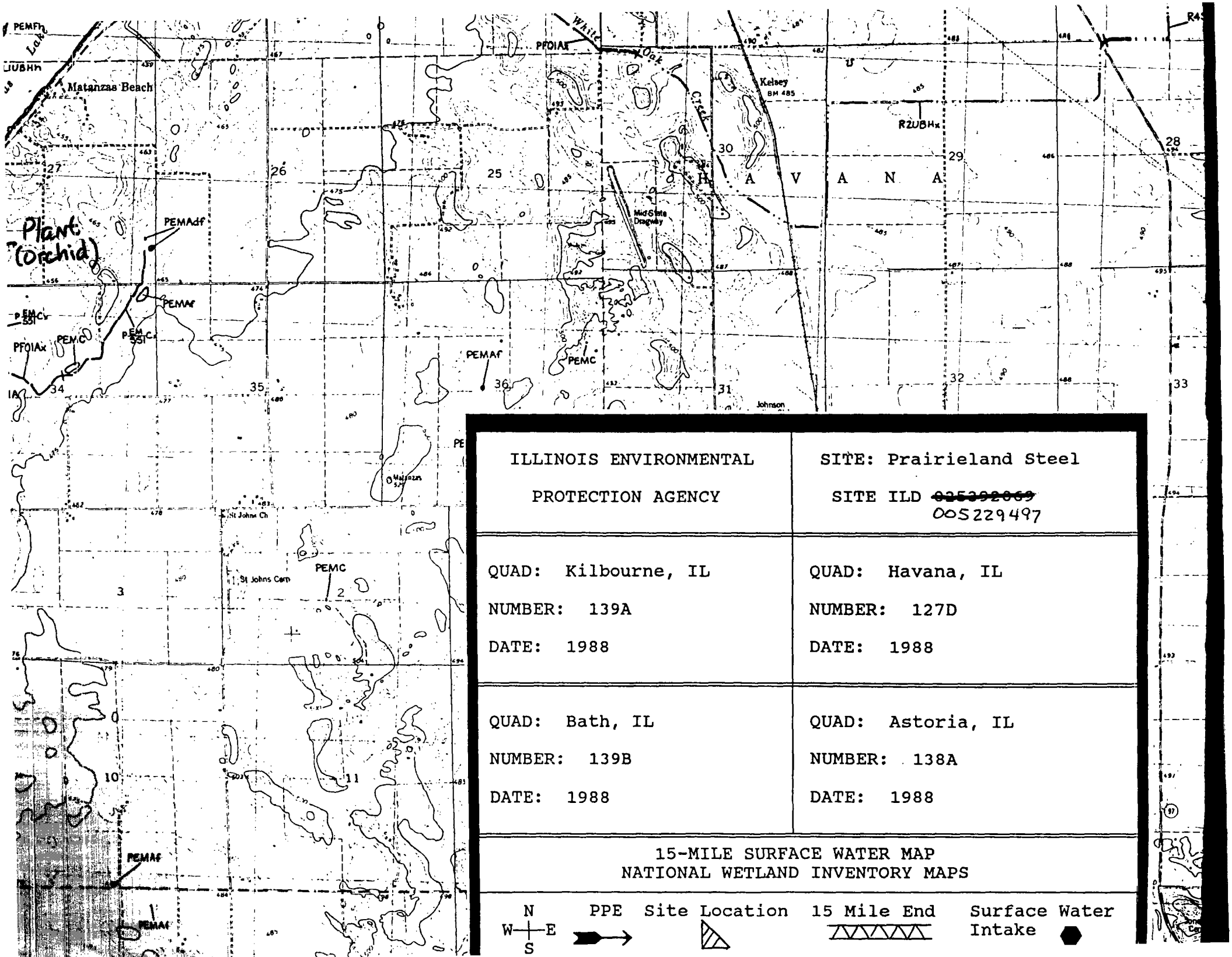
Scale 1:24000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET



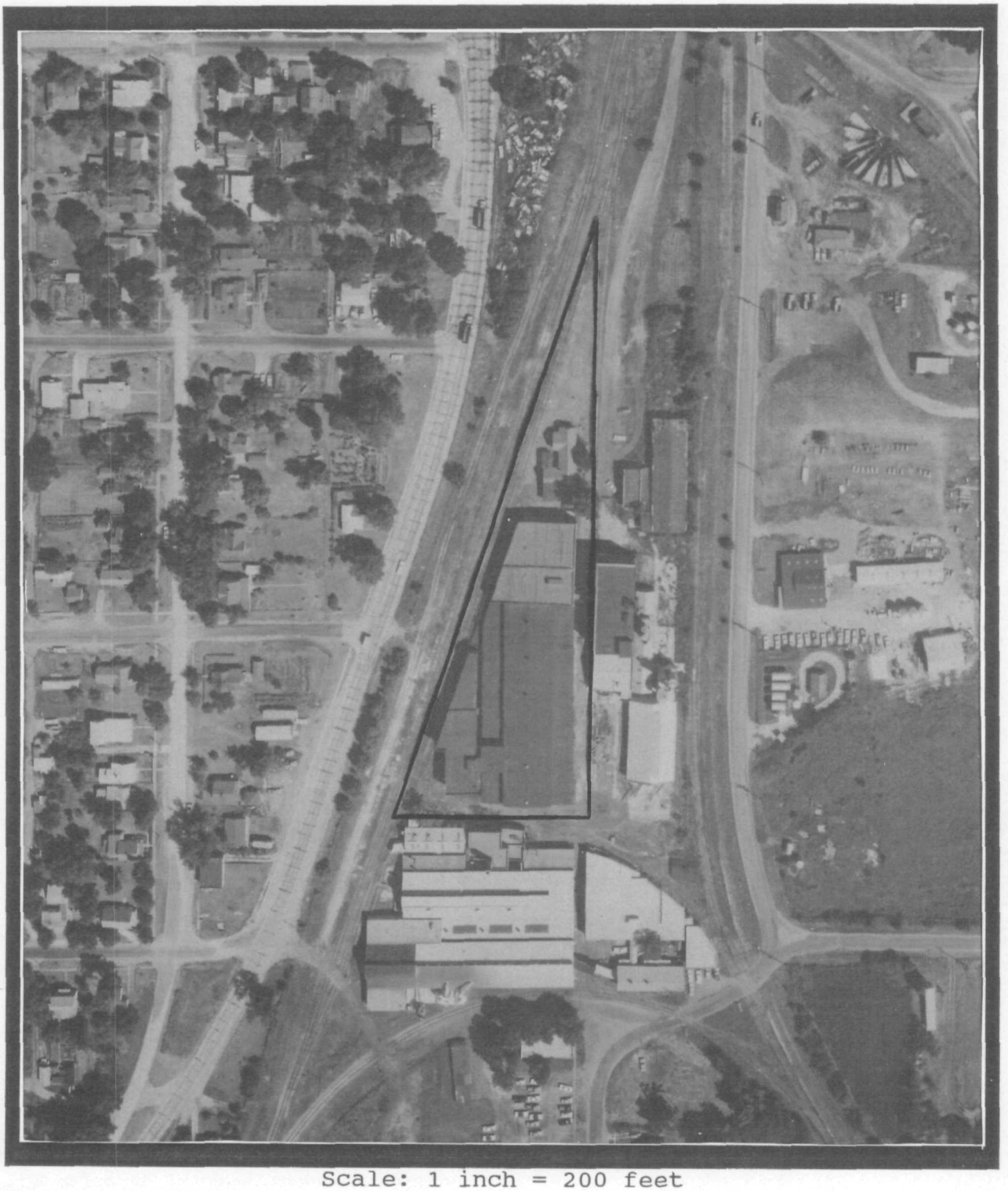
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	SITE: Prairieland Steel SITE ILD ~~025392069~~ 005229497
QUAD: Kilbourne, IL NUMBER: 139A DATE: 1988	QUAD: Havana, IL NUMBER: 127D DATE: 1988
QUAD: Bath, IL NUMBER: 139B DATE: 1988	QUAD: Astoria, IL NUMBER: 138A DATE: 1988

15-MILE SURFACE WATER MAP
NATIONAL WETLAND INVENTORY MAPS

N W E S PPE Site Location 15 Mile End Surface Water Intake

SECTION 4

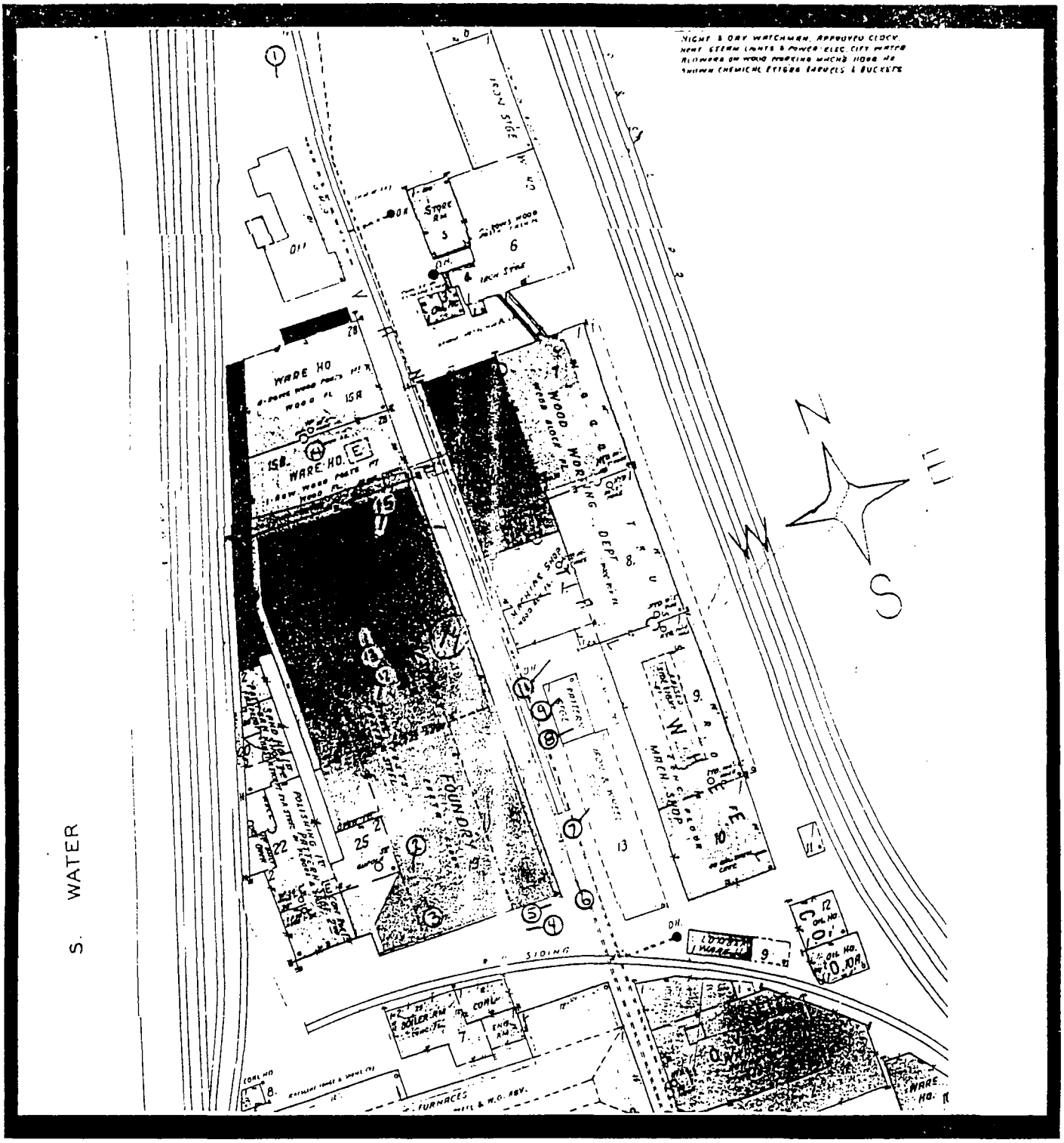
PHOTOGRAPHS



Scale: 1 inch = 200 feet

N
W E
S

August 8, 1969 Aerial Photograph



Photograph Location Map

DATE: January 21, 1992

TIME: 12:30 pm

PHOTOGRAPH TAKEN BY:

Tim Murphy

PHOTOGRAPH NUMBER: 1

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: S

COMMENTS: looking at the entrance to the facility.

DATE: January 21, 1992

TIME: 12:51 pm

PHOTOGRAPH TAKEN BY:

Tim Murphy

PHOTOGRAPH NUMBER: 2

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: SW

COMMENTS: prairie waste and lead pot wastes.

DATE: January 21, 1992

TIME: 12:51 pm

PHOTOGRAPH TAKEN BY:

Tim Murphy

PHOTOGRAPH NUMBER: 3

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: prairie waste and lead pot waste.

DATE: January 21, 1992

TIME: 12:54 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 4

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: W

COMMENTS: S property boundary line

DATE: January 21, 1992

TIME: 12:54 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 5

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: S boundary line

DATE: January 21, 1992

TIME: 12:56 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 6

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: E boundary line

DATE: January 21, 1992

TIME: 1:01 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 7

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: NE

COMMENTS: wastes on Barney Kon property (Walker Forge Inc.) on the east side of Prairieland Steel

DATE: January 21, 1992

TIME: 1:03 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 8

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: of an area were an old waste pile was

DATE: January 21, 1992

TIME: 1:05 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 9

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: NE

COMMENTS: another picture where the old waste pile was located

Photo 10 - did Not develope

DATE: January 21, 1992

TIME: 1:08 pm

PHOTOGRAPH TAKEN BY:

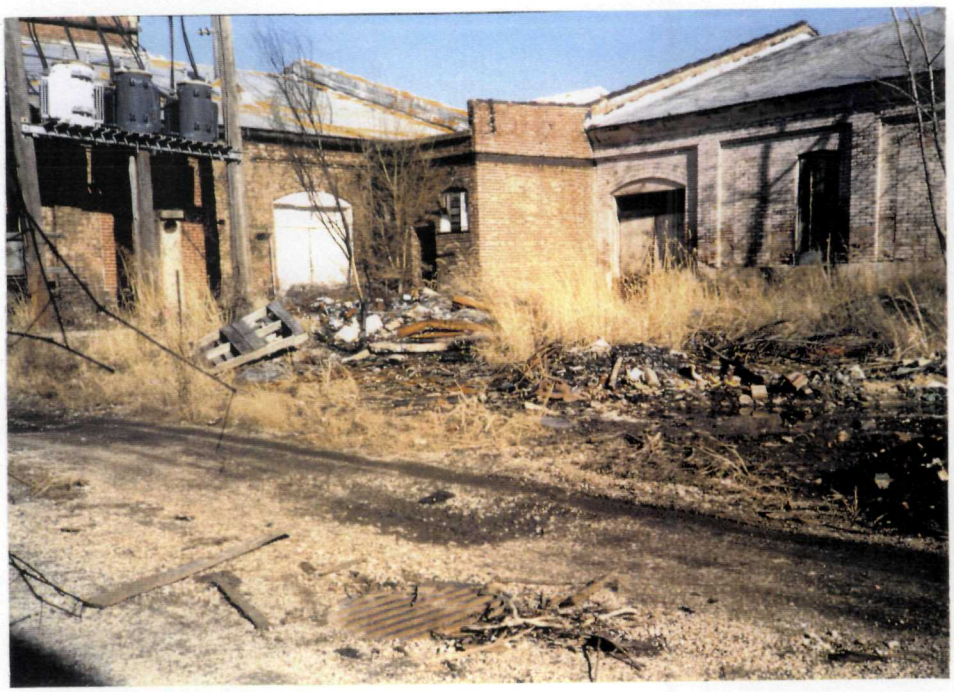
Sheila Murphy

PHOTOGRAPH NUMBER: 11

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: NE

COMMENTS: alley storm drain with waste pile in background



DATE: January 21, 1992

TIME: 1:12 pm

PHOTOGRAPH TAKEN BY:

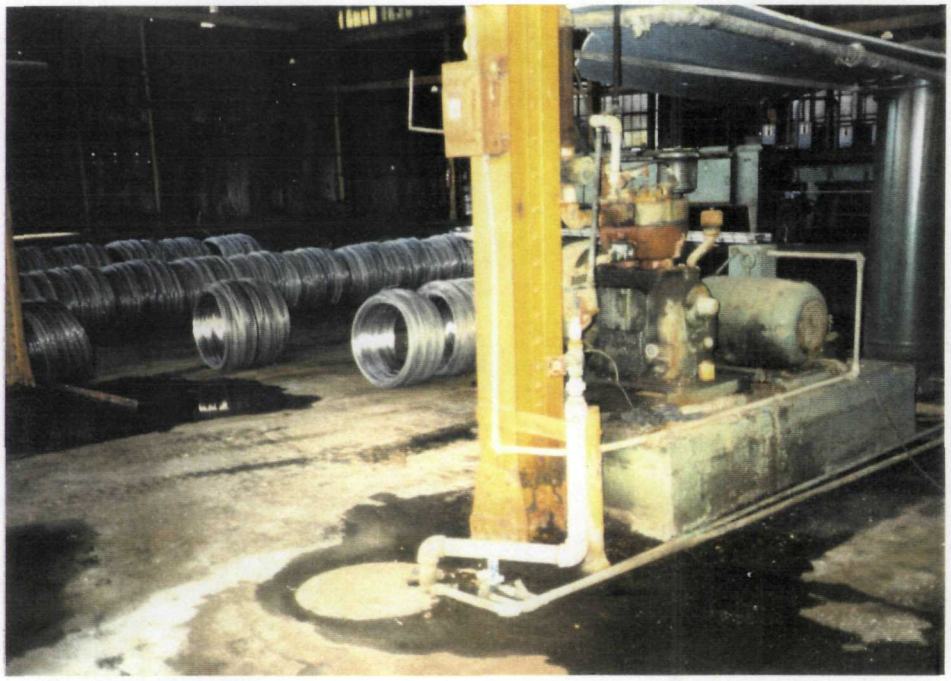
Sheila Murphy

PHOTOGRAPH NUMBER: 12

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: SW

COMMENTS: drain inside facility



DATE: January 21, 1992

TIME: 1:15 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 13

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: another drain inside

DATE: January 21, 1992

TIME: 1:22 pm

PHOTOGRAPH TAKEN BY:

Sheila Murphy

PHOTOGRAPH NUMBER: 14

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: E

COMMENTS: small waste soap pile in basement

DATE: January 21, 1992

TIME: 1:30 pm

PHOTOGRAPH TAKEN BY:

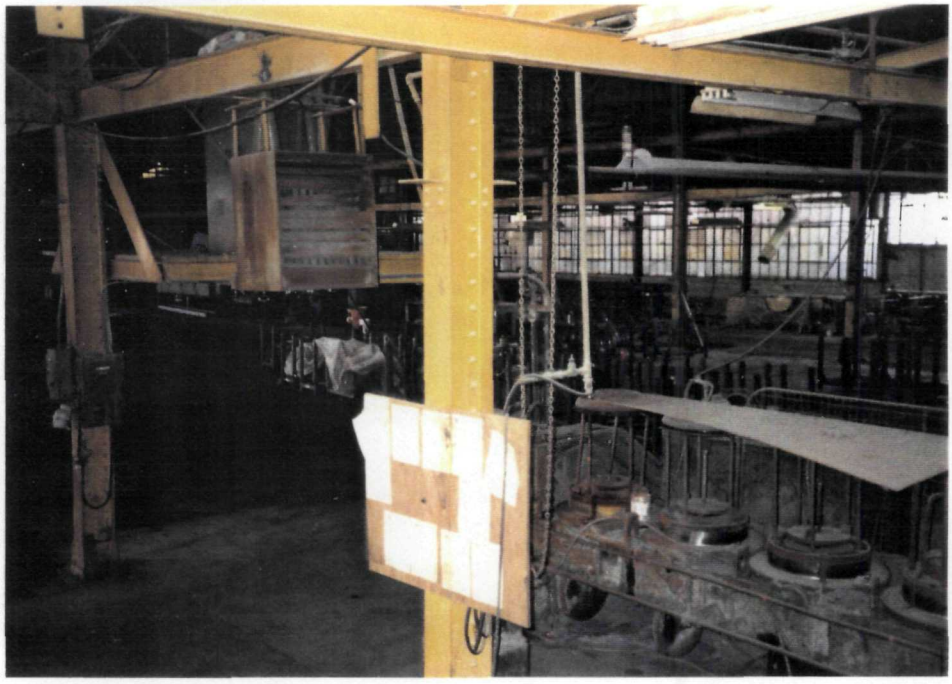
Sheila Murphy

PHOTOGRAPH NUMBER: 15

LOCATION: Prairieland Steel, 550 S. Pear St., Havana, IL.

PICTURE TAKEN TOWARD: SW

COMMENTS: facility layout



SECTION 5

SUPPORTING DOCUMENTATION AND REFERENCES

Reference Number:

1. Sanborn Fire Insurance Maps of Havana: 1887, 1893, 1899, 1909, 1914, 1925 and 1946.
2. IEPA FOS Inspection Reports of PLS on June 14, 1990 and November 14, 15, 1990.
3. IEPA waste sample results from IEPA's inspection November 14, 15, 1990.
4. ISWS Printout of area well logs
5. IDPH printout of non-community wells in the Havana area.
6. Water Resources Data Illinois Water Year 1989, Volume 2, pages 327 and 328.
7. ISWS Bulletin 60-12, Public Groundwater Supplies in Mason County, pages 1-5.
8. IDOC Sensitive Area Maps and Correspondence

Reference Number 1

INDEX.

STREETS.

		SHEET
A		
dams,	191-211	3
"	212-220	1
"	221-229	3
"	230-237	2
B		
roadway,	101-131	3
J		
fferson,	201-210	2
M		
ain,	196-221	3
"	222-232	2
"	233-248	3
"	239-259	2
arket,	192-208	3
"	211-217	2
"	218-232	3
"	233-246	2
O		
range,	94-100	1
"	101-125	2
"	113-129	3
P		
ear,	78-100	1
"	101-131	2
un[illegible]	99-139	3
W		
ashington,	201-225	1
ater,	101-134	1
"	125-128	2

SPECIALS.

		SHEET
A		
nerican Hotel,		2
drus Hall,		2
Ashurst Press Drill Co.,		2
B		
Baptist Church,		3
Brown, E., Ice Houses,		2
C		
Casino Opera House,		2
City Flour Mills,		1
Court House & Jail,		3
D		
Dorell & Borgelt, Plow Factory,		3
E		
Episcopal Church,		3
F		
Fette & Goshert, Flour Mills,		1
" F., Lumber Yard,		2
G		
German Reformed Church,		3
H		
Havana Press Drill Works,		2
M		
McFadden & Co., Elevator,		1
McKinley Hotel,		3
Mason Hotel,		2
Masonic Temple,		3
Methodist Episcopal Church,		3
Meyer's Block,		3
P		
Pipkin & Cunningham, Wagon Shop		1
Public School,		2
Pulsifer Elevator,		1
T		
Taylor House,		2
Turner, V. P., Elevator,		1
W		
Webb, W. H., Livery,		3

SHEET 1

SANBORN MAP & PUBLISHING CO., LIMITED
117 & 119 Broadway
NEW YORK

Population 2900.
No Steam & No Hand Engines
No Independent Hose Carts
Water Facilities: NOT GOOD
STREETS NOT PAVED
Prevailing Winds W.

HAVANA, ILL.

MAY, 1887

SCALE 50 FT. TO AN INCH.

COPYRIGHT, 1887, BY THE SANBORN MAP & PUBLISHING CO. LIMITED.

LIBRARY OF CONGRESS COPYRIGHT
JUN 6 1887
141.85
CITY OF WASHINGTON

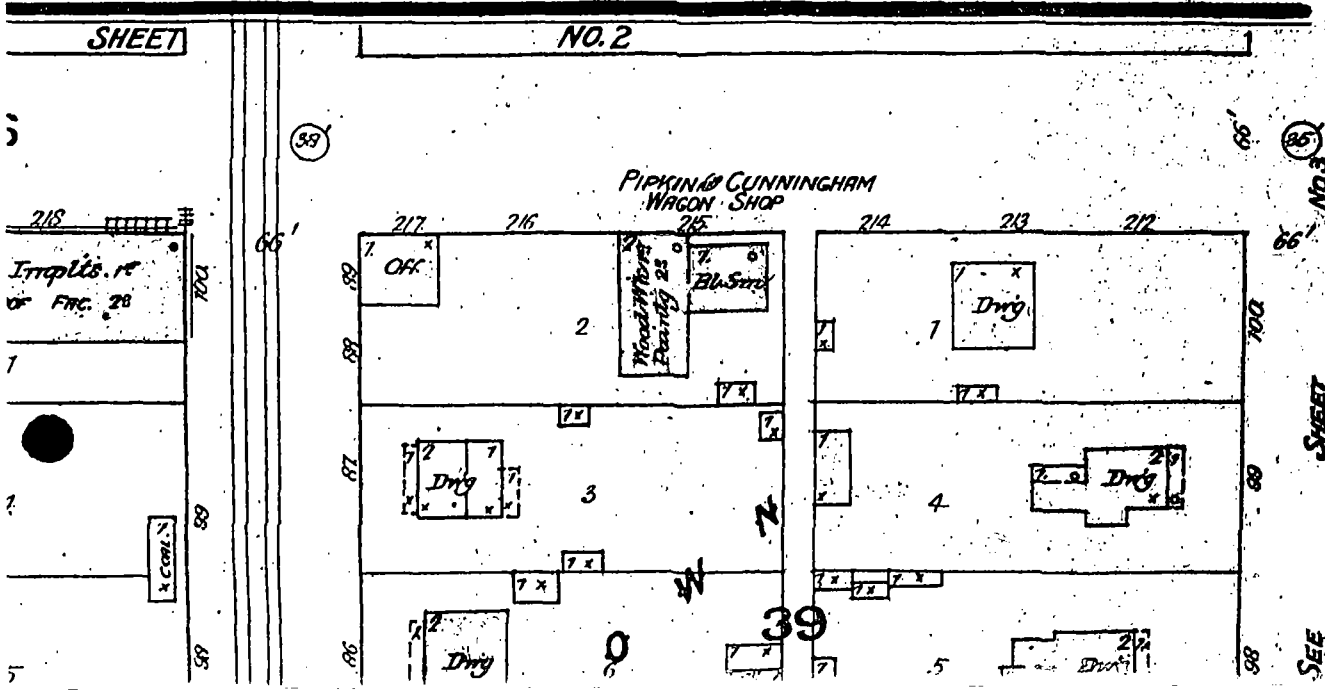
Certificate

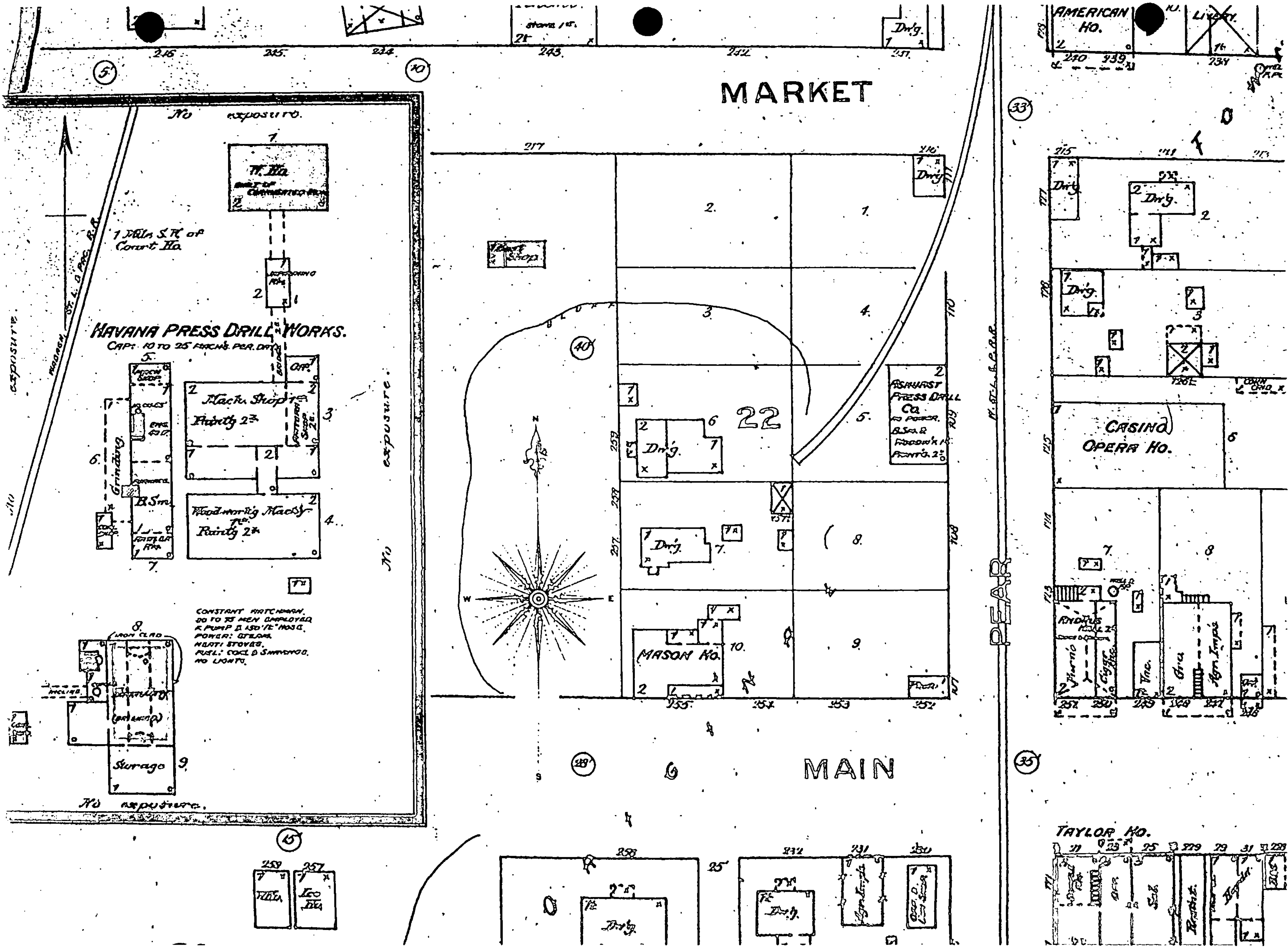
HAVANA, ILL. MAY 31, 1887.

WE THE UNDERSIGNED INSURANCE AGENTS OF THE CITY OF HAVANA, ILL. HAVE THIS DAY EXAMINED THE NEW INSURANCE MAP OF SAID CITY, ISSUED BY THE SANBORN MAP & PUB. CO. LIMITED OF NEW YORK & FIND THE SAME VERY COMPLETE & CORRECT & RECOMMEND ITS USE.

E. E. Coppel Agt

Isaac N. Mitchell agent




MARKET
MAIN
PEAR
22
HAVANA PRESS DRILL WORKS.
No exposure.
Mach. Shop 1st
Painty 2d
Woodworkg Machy 1st
Painty 2d
B.Sm.
Grinding
Storage
ASHURST PRESS DRILL Co.
CASINO OPERA HO.
MASON HO.
AMERICAN HO.
TAYLOR HO.
Drg.
CONSTANT WATCHMAN.
Agr. Impts.

5 sht
4 sheets.

1

NOTE.

STREETS NOT PAVED.
Water Facilities: SUPPLY 8 DRIVEN WELLS, 2 DEAN PUMPS CAP. 1½ MILLIONS GALLONS PER 24 HOURS. IRON W. TANK 36'x16' CAP. 65000 GALS ON BR. TOWER 51' HIGH, 38' ELEVATION ABV. BUSINESS CENTRE. PRESSURE 65 TO 70 LBS. 6½ MILES OF MAINS 30 DBL. HYD'S.
Fire Depart. VOLUNTEER COMPANY. NO ENG. 2 HOSE CARTS W 1000' 2½" HOSE. 1 H.W.L. TRUCK.

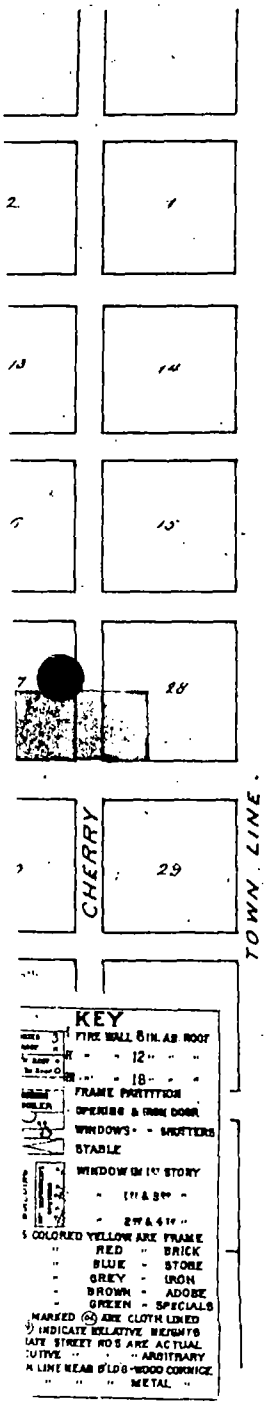
2n COPY TO MAP DIV.
APR 6 1907

SANBORN-PERRIS MAP CO. LIMITED
117&119 Broadway
NEW YORK
Population 3500
No Steam & no Hand Engines
2 Independent Hose Carts
Water Facilities See Note.
Prevailing Winds N. & W.
HAVANA
MASON CO. ILL.
DEC 1892
SCALE 50 FT. TO AN INCH.
COPYRIGHT 1892 BY THE SANBORN-PERRIS MAP CO. LIMITED

7571
Jan. 8-1893

INDEX.

SPECIALS.



3

ADAMS

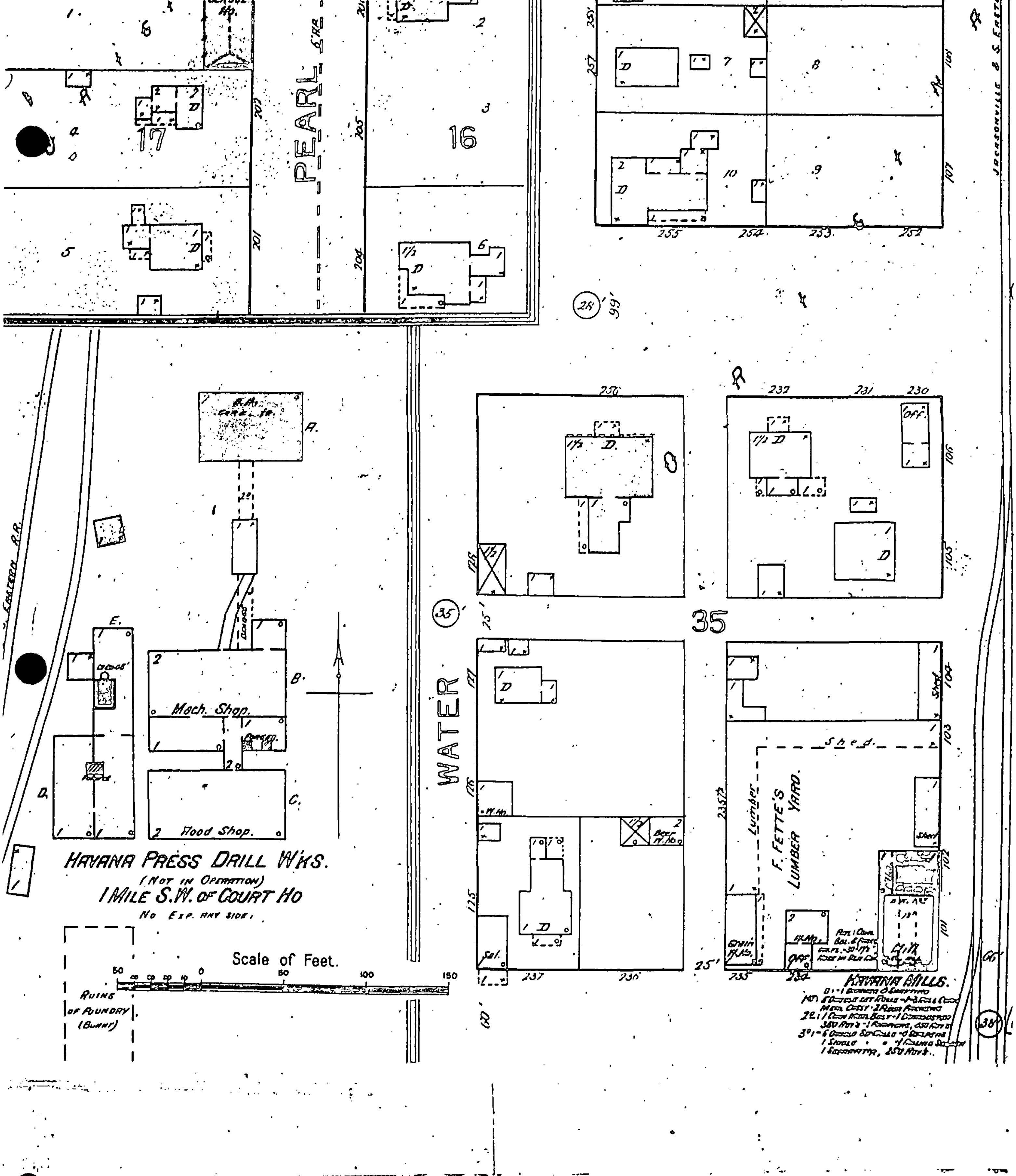
33

99

38

205 204 203 12' 202 201 66' 200 199 198 197

ERY


PEARL
17
16
WATER
35
Mech. Shop.
Wood Shop.
HAVANA PRESS DRILL W'KS.
(NOT IN OPERATION)
1 MILE S.W. OF COURT HO
NO EXP. ANY SIDE.
Scale of Feet.
RUINS OF FOUNDRY (BURNT)
F. FETTE'S LUMBER YARD.
Lumber
Shed
Grain Ho.
Off.
HAVANA MILLS.
JACKSONVILLE & S. EASTERN R.R.

DEX.

Numbers given are arbitrary.

SANBORN-PERRIS MAP CO. LIMITED
117 & 119 Broadway, NEW YORK
Population 3600.
No Steam & no Hand Engines
2 Independent Hose Carts
Water Facilities See Note.
Prevailing Winds N. and W.
HAVANA
Mason Co. Illinois.
April 1899.
Scale 50 ft. to an inch.

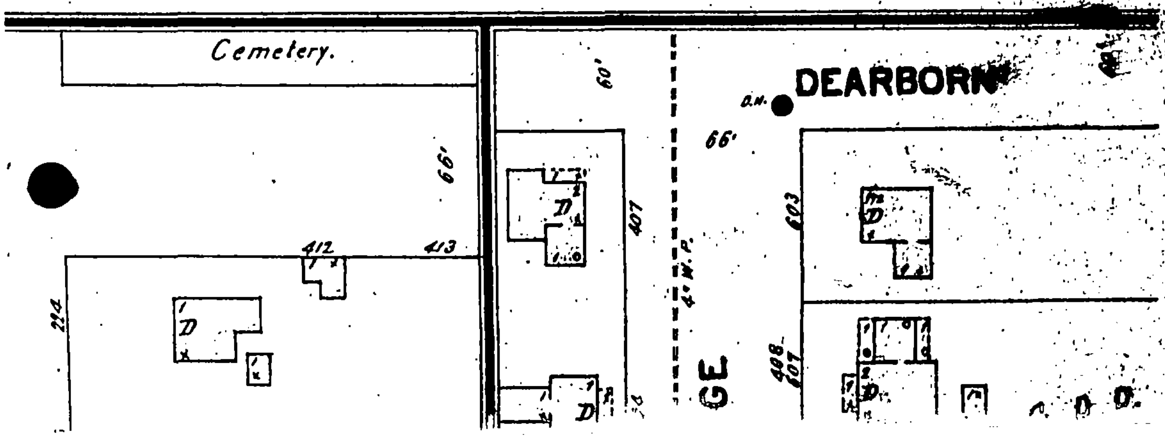
1

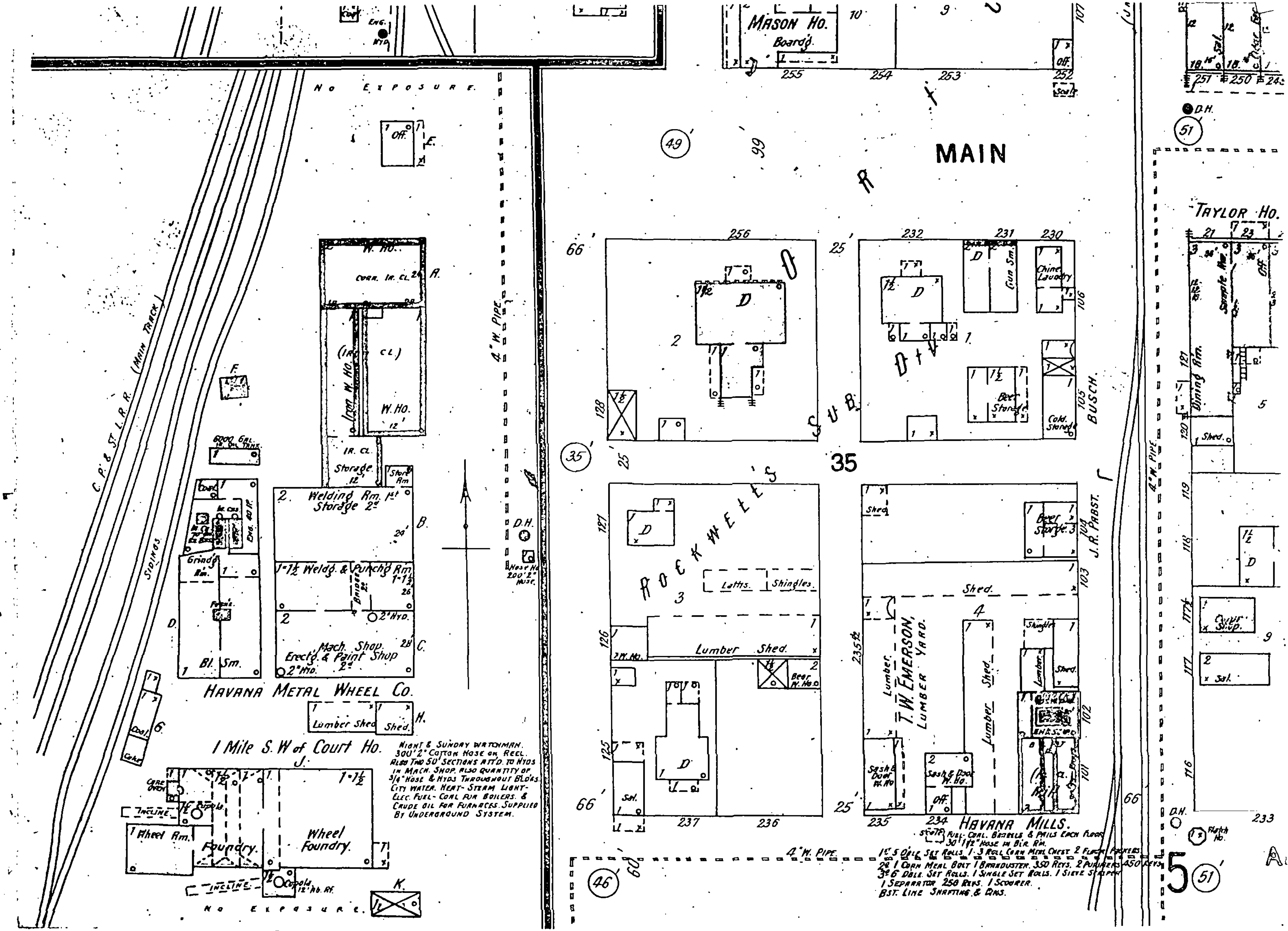
NOTE.

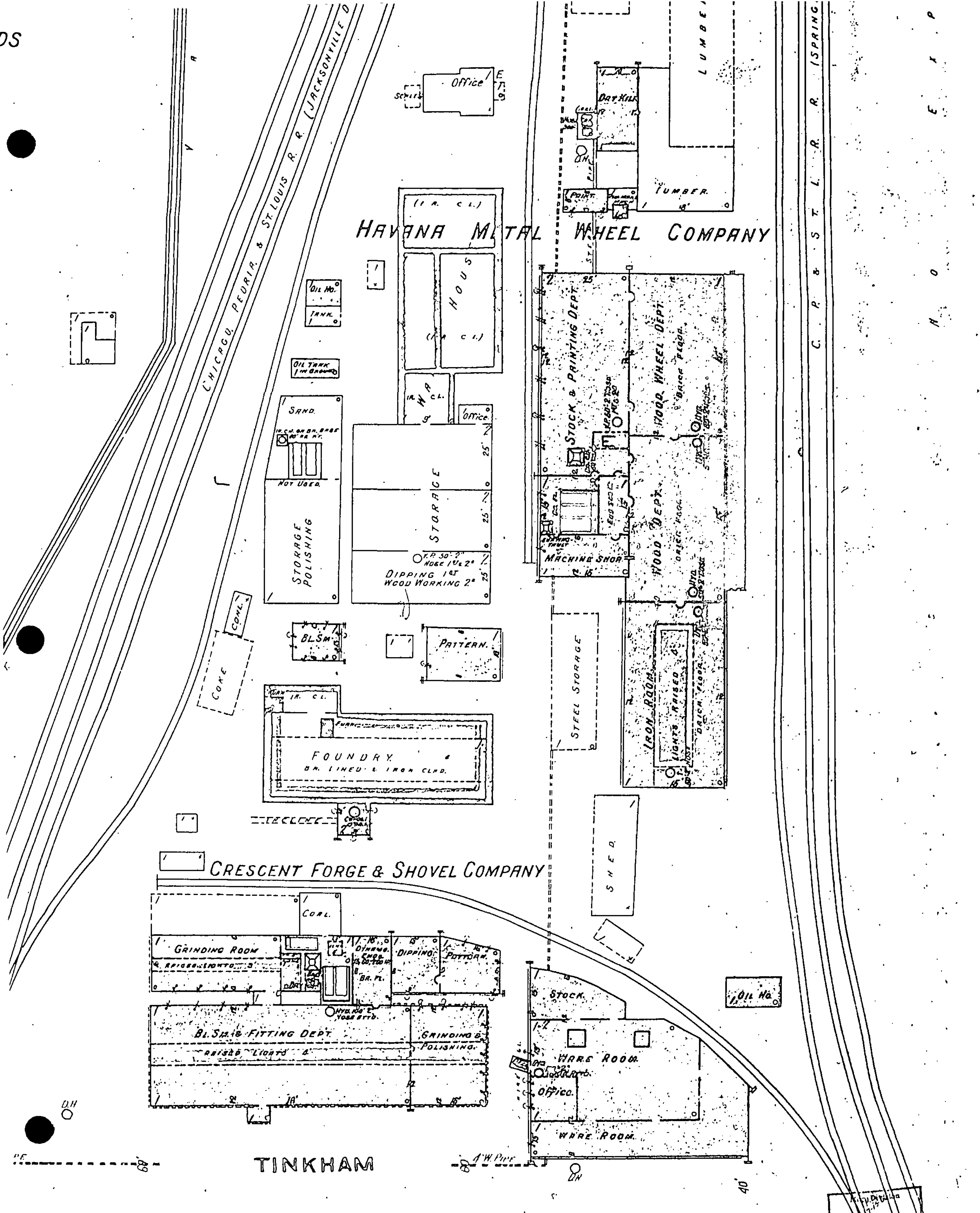
Water Facilities: Supply from Driven Wells. 2 Deep Pumps, Total Capy 500000 Galls per 24 hours. Iron Water Tank 36' x 15', Capy 60000 Galls on Buck Tower, 60' High, 38' Elevation Abv. Business Center. 10" Stand Pipe, normal pressure 65 Lbs. Fire Pressure 120 Lbs. Direct from Pumps. Daily Consumption 600000 Galls. 52 Hyd's. 8½ Miles of Mains 4" to 10".

Fire Depart. Volunteer (not organized) 2 Independent Hose Carts. 1000' 2½" Standard hose. 1 H. & L. Truck.

Streets not paved. Public Lighting: Electricity.




MAIN
MASON HO. Board'g.
TAYLOR HO.
Sample Rm.
Dining Rm.
No Exposure.
C.P. & ST. L. R.R. (MAIN TRACK)
SIDINGS
4" W. PIPE
HAVANA METAL WHEEL CO.
W. Ho.
Corr. Ir. Cl.
Iron W. Ho.
W. Ho.
Ir. Cl. Storage
Welding Rm. 1st Storage 2d
1-1½ Weld'g & Punch'g Rm.
Mach. Shop. Erect'g & Paint Shop 2d
Grind'g Rm.
Bl. Sm.
Lumber Shed
Shed.
6000 Gal. Fuel Oil Tank
1 Mile S.W. of Court Ho.
Night & Sunday Watchman. 300' 2" Cotton Hose on Reel. Also Two 50' Sections Att'd. to Hyds in Mach. Shop. Also Quantity of 3/4" Hose & Hyds Throughout Bldgs. City Water. Heat-Steam. Light-Elec. Fuel-Coal for Boilers. & Crude Oil for Furnaces. Supplied by Underground System.
Core Oven
Incline
Wheel Rm.
Foundry.
Wheel Foundry.
Cupola
D.H.
Hose Ho. 200' 2" Hose.
ROCKWELL'S SUB DIV
35
Lumber Shed
Lath.
Shingles.
Beer W. Ho.
Sal.
Chinese Laundry
Gun Sm.
Beer Storage
Cold Storage
BUSCH.
J.R. PABST.
Beer Storage
Shed.
T.W. EMERSON, LUMBER YARD.
Lumber
Lumber Shed
Sash & Door W. Ho.
Off.
HAVANA MILLS.
Fuel-Coal. Barrels & Pails Each Floor 30' 1½" Hose in Blr. Rm.
1st 5 Dble Set Rolls. 1-3 Roll Corn Meal Chest. 2 Flour Packers
2d 1 Corn Meal Bolt. 1 Branduster. 350 Revs. 2 Purifiers. 450 Revs.
3d 6 Dble Set Rolls. 1 Single Set Rolls. 1 Sieve Scalper
1 Separator 250 Revs. 1 Scourer.
Bst. Line Shafting & Gins.
4" W. Pipe
Flat'h Ho.
Sal.
Cigar Shop.
5



PEAR ST.

CRESCENT FORGE & SHOVEL CO.

WATCHMAN & NEWMAN CLOCK. ½ HOURLY ROUNDS. 8 STATIONS. HYD. & 200'-2" HOSE U.S. OF HOSE CART AT HAVANA METAL WHEEL CO. BARRELS & BUCKETS DISTRIB'D. HEAT: STEAM LIGHTS: ELEC, FUEL: COAL IN BOILERS, & CRUDE-OIL IN FURNACE.

INDEX.

SPECIALS.

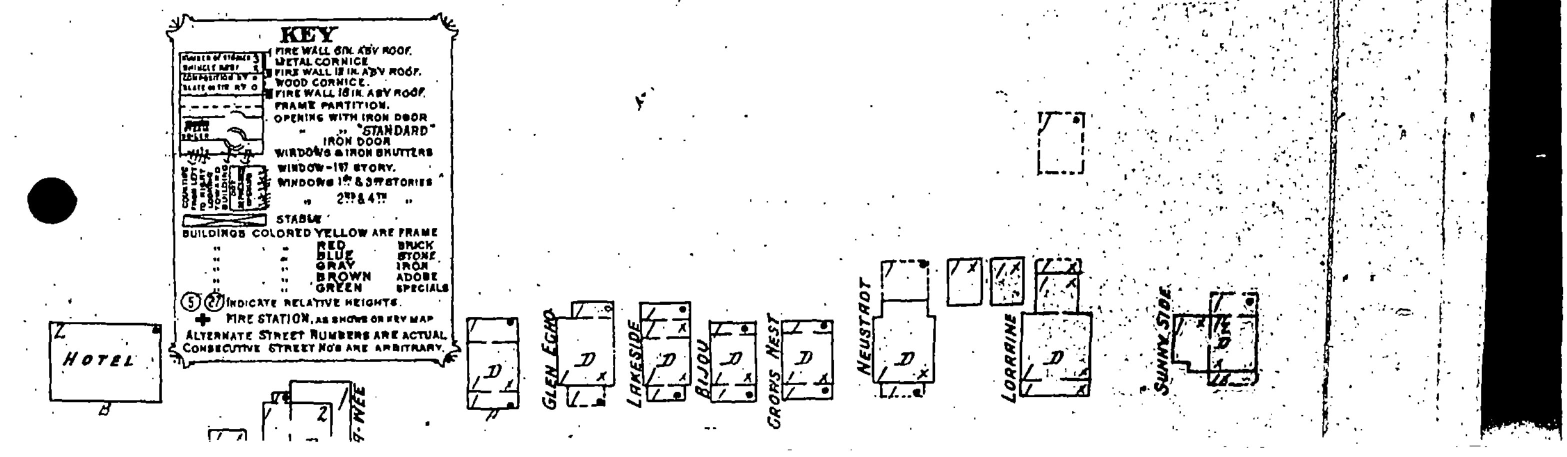
side of Street shown.

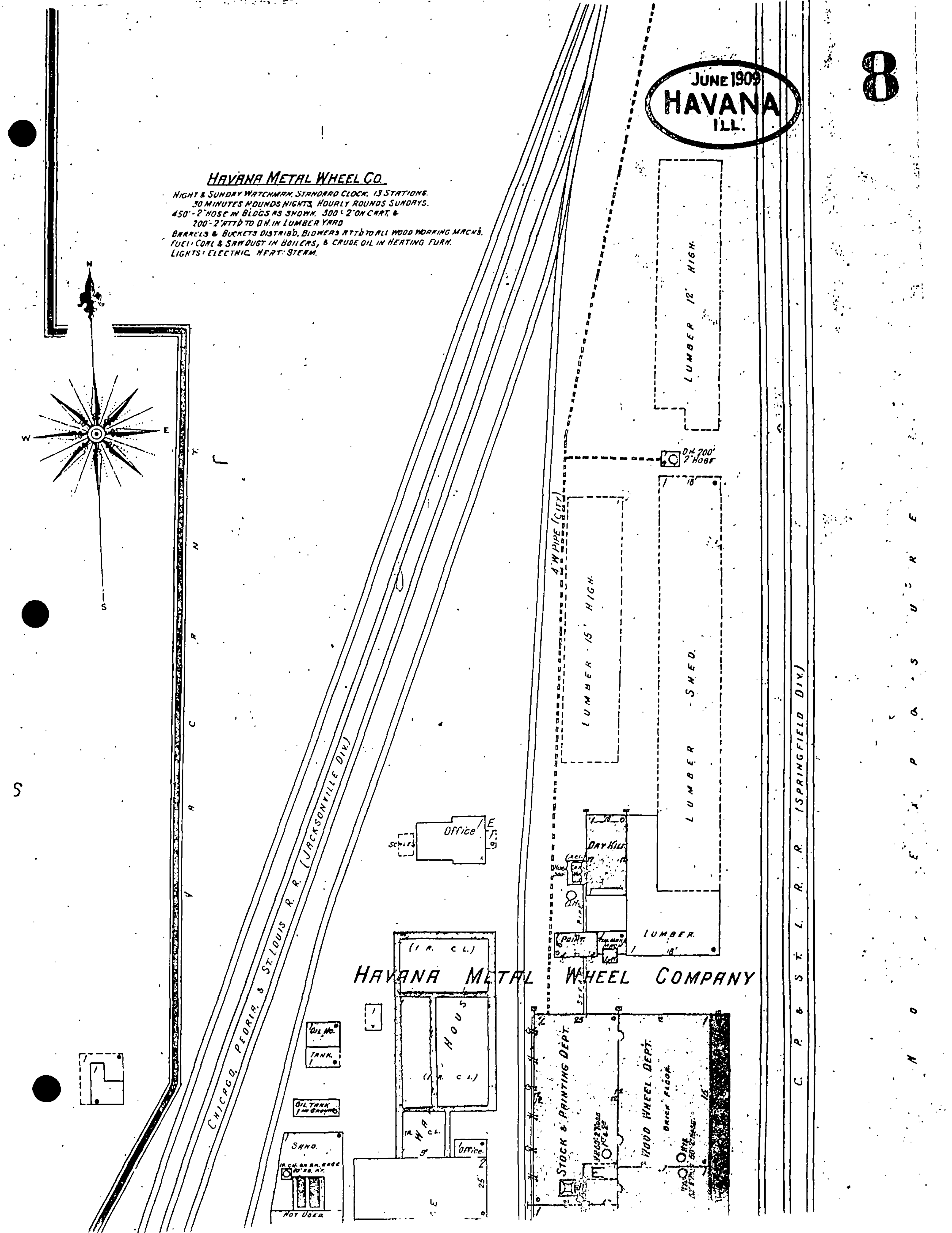
NOTE.—House Numbers given are arbitrary.

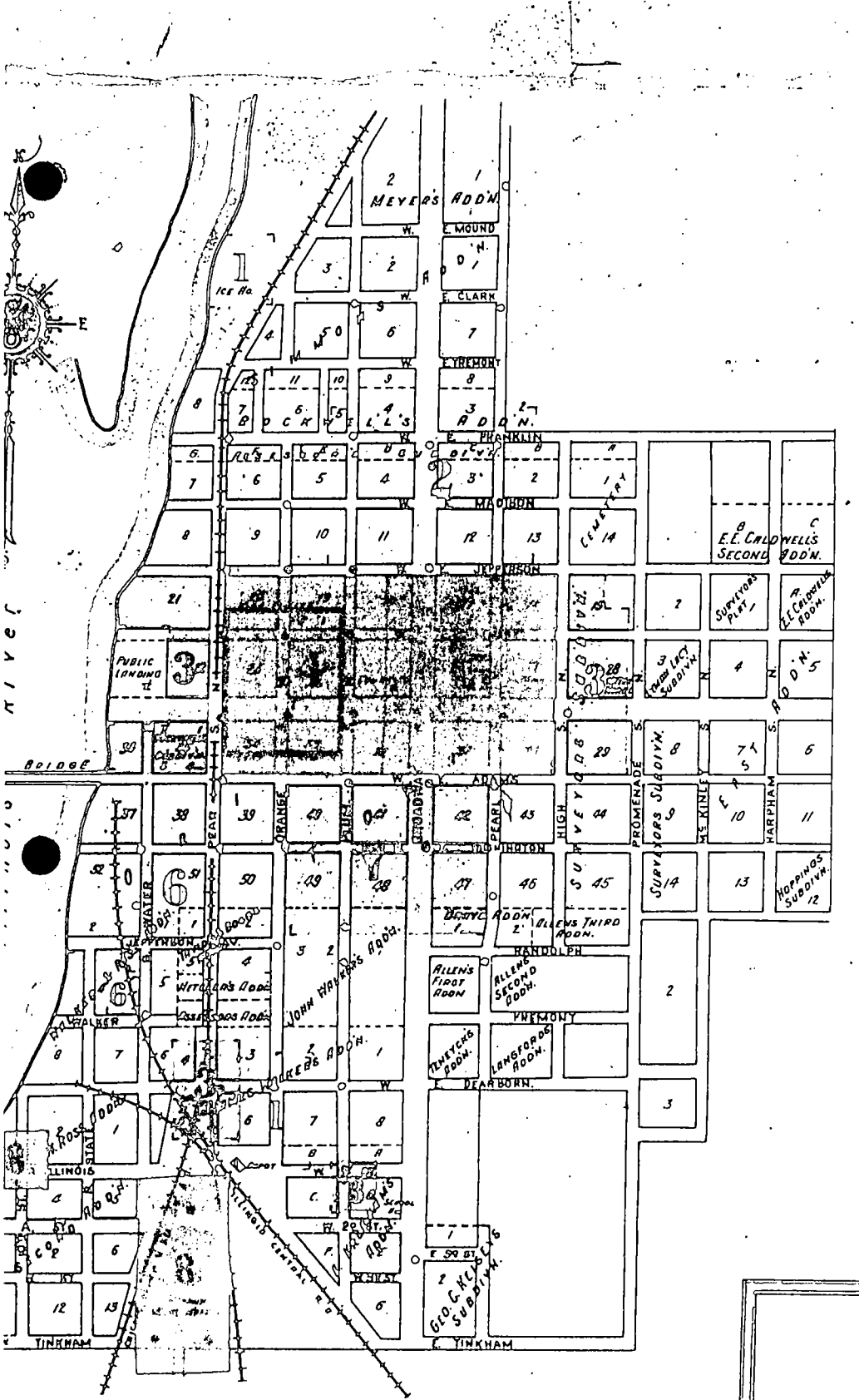
1535
(8 SHEETS)

1

SANBORN MAP COMPANY,
POPULATION
4300
PREVAILING WINDS S.W.
WATER FACILITIES SEE NOTE
NO STEAM & NO HAND ENGINE
THREE INDEPENDENT HOSE CARTS
TWO HOOK & LADDER TRUCKS
HAVANA
MASON COUNTY
ILLINOIS
JUNE
SCALE 50 FT. TO AN INCH
1909
11 BROADWAY, NEW YORK.




8
JUNE 1909
HAVANA
ILL.
HAVANA METAL WHEEL CO.
NIGHT & SUNDAY WATCHMAN, STANDARD CLOCK, 13 STATIONS.
30 MINUTES ROUNDS NIGHTS, HOURLY ROUNDS SUNDAYS.
450'-2" HOSE IN BLDGS AS SHOWN. 300'-2" ON CART, & 200'-2" ATT'D TO D.H. IN LUMBER YARD
BARRELS & BUCKETS DISTRIB'D, BLOWERS ATT'D TO ALL WOOD WORKING MACH'S.
FUEL: COAL & SAWDUST IN BOILERS, & CRUDE OIL IN HEATING FURN.
LIGHTS: ELECTRIC. HEAT: STEAM.
N
E
W
S
VAN BUREN ST
CHICAGO, PEORIA & ST. LOUIS R.R. (JACKSONVILLE DIV.)
4" W. PIPE (CITY)
LUMBER 12' HIGH
D.H. 200' 2" HOSE
LUMBER 15' HIGH
LUMBER SHED
LUMBER
DRY KILN
PAINT
Office
SCALES
HAVANA METAL WHEEL COMPANY
OIL HO.
TANK
OIL TANK 1 IN GROUND
SAND
NOT USED
Office
STOCK & PRINTING DEPT.
WOOD WHEEL DEPT.
BRICK FLOOR
C. P. & ST. L. R. R. (SPRINGFIELD DIV.)
HORSE EXPRESS USE



WATER FACILITIES

Municipal ownership.- Gravity and
New pumps installed 1911.- Sour
wells, average depth 75'.- Two
combined capacity 3,000,000 g
daily consumption 2,500,000 g
54000 gals. elevated 90' above b
pressure 57 lbs., fire pressur
6" to 8" mains and 14 miles of
72 double hydrants.

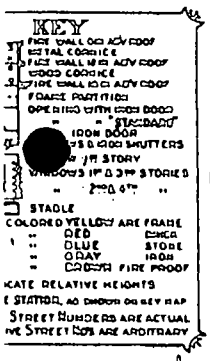
FIRE DEPT.

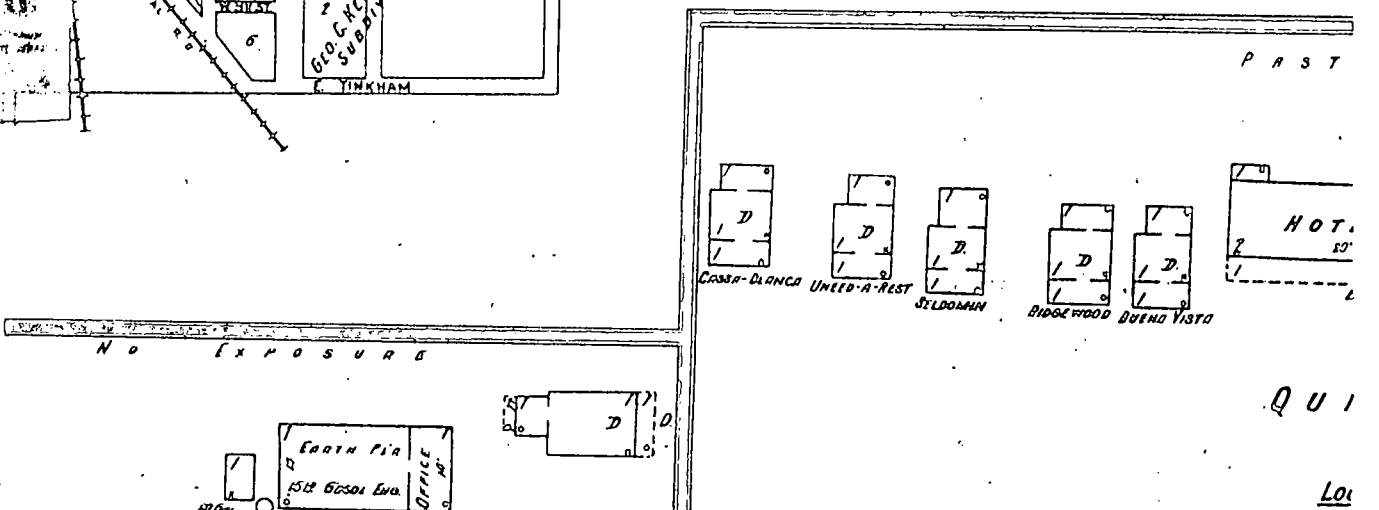
Volunteer, chief and 10 men, 1
all hours, 1 combination hose
hose - fire alarm: bell, whistl

Grades as shown - Streets bric
Public lights: electric.

STREETS

		COUNTY
A		
Adams, E.,	100-228	*5
" "	101-129	*7
" "	300-336	*8
" W.,	100-114	*5
" "	101-229	*7
" "	116-828	*6
" "	801-425	*6
" "	400-506	*8
B		
Broadway, N.,	100-229	5
" "	300-521	2
" S.,	100-129	5
" "	200-353	7
D		
Dearborn, W.,	1 & 3	
F		
First, W.,	1 & 3	
Franklin, E.,	100-228	2
" W.,	100-209	2
H		
High, N.,	100-226	*5
" "	101-227	*3
" S.,	100-128	*5
" "	101-129	*3
I		
Illinois, W.,	8	
J		
Jefferson, E.,	100-222	*2
" "	101-227	*5
" "	301-313	*3
Jefferson, W.,		
" "		
" "		Ave.,
Madison, E.,		
" W.,		
Main, E.,		
" W.,		
" "		
Market, E.,		
" W.,		
" "		
Orange, N.,		
" S.,		
Pear,		
" N.,		
" S.,		
Pearl, N.,		
" S.,		





715A
8 SHEETS

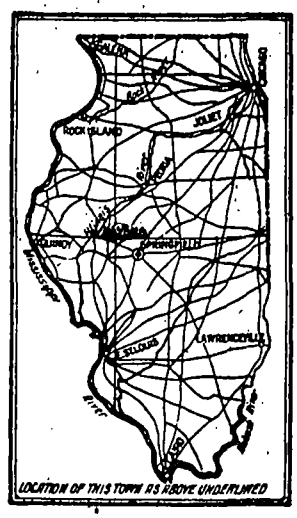
WATER FACILITIES

Municipal ownership.- Gravity and direct pressure system. New pumps installed 1911.- Source of supply: eight 6" driven wells, average depth 75'.- Two Deane steam pumps, combined capacity 3,000,000 gals per 24 hrs.- Average daily consumption 2,500,000 gals.- Stand pipe, capacity 54000 gals, elevated 90' above business section.- Gravity pressure 57 lbs., fire pressure 118 lbs.- Two miles of 6" to 8" mains and 14 miles of 4" laid 1889-1900-1909. 72 double hydrants.

FIRE DEPT.

Volunteer, chief and 10 men, 1 full pay man at Engine Ho. all hours, 1 combination hose wagon and 1500 2½" cotton hose.- Fire alarm: bell, whistle and telephone.

Grades as shown.- Streets brick paved in business section. Public lights: electric.



SEP 28 1914

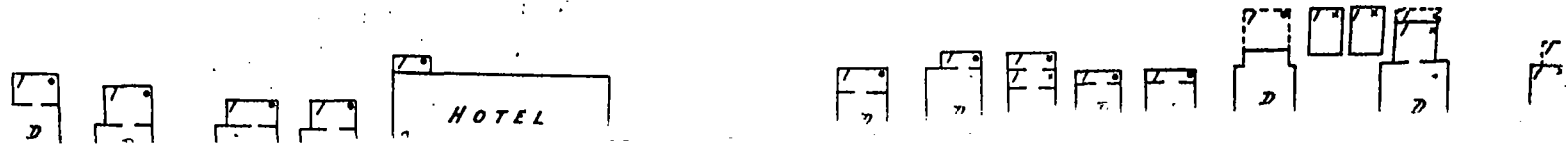
INDEX

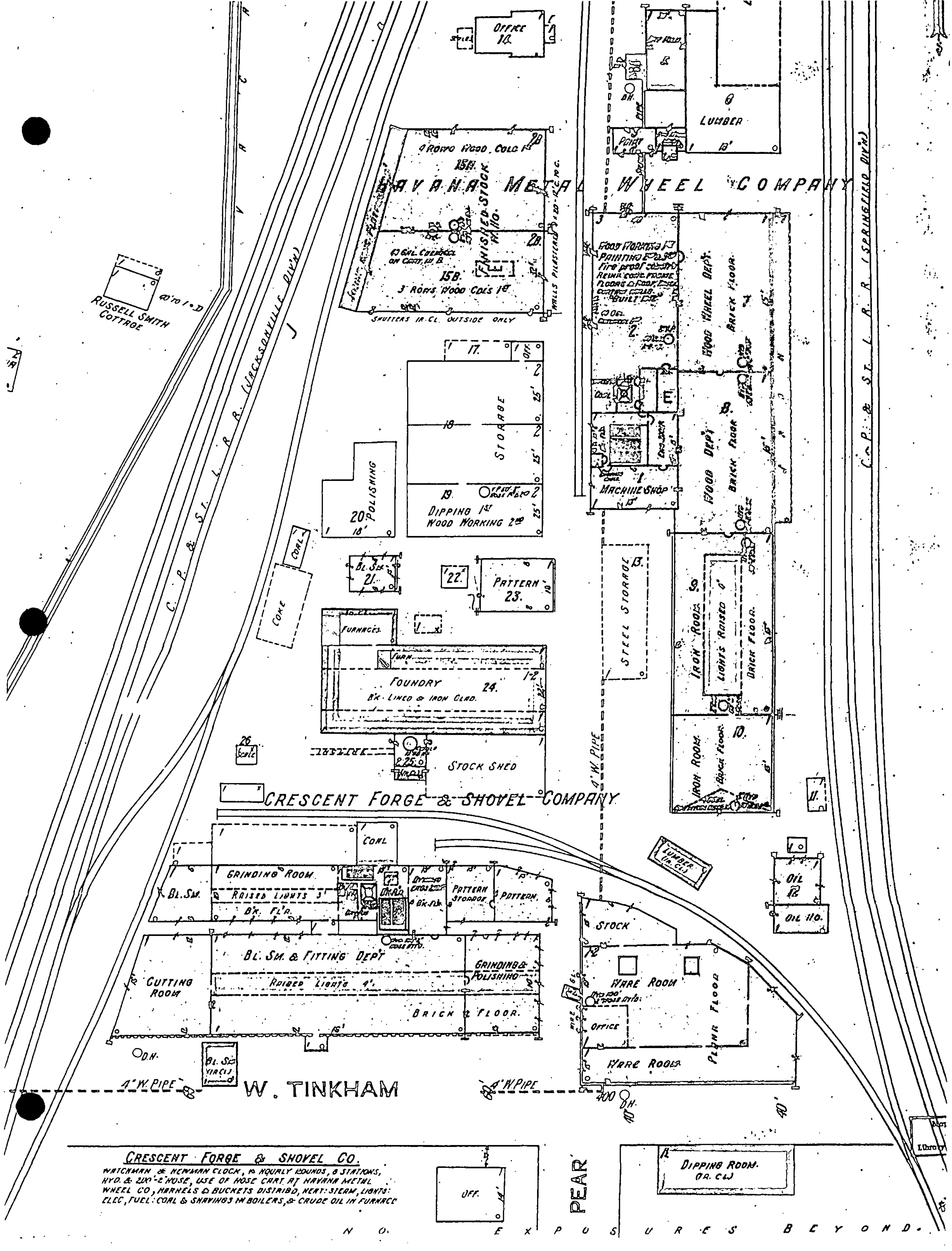
STREETS

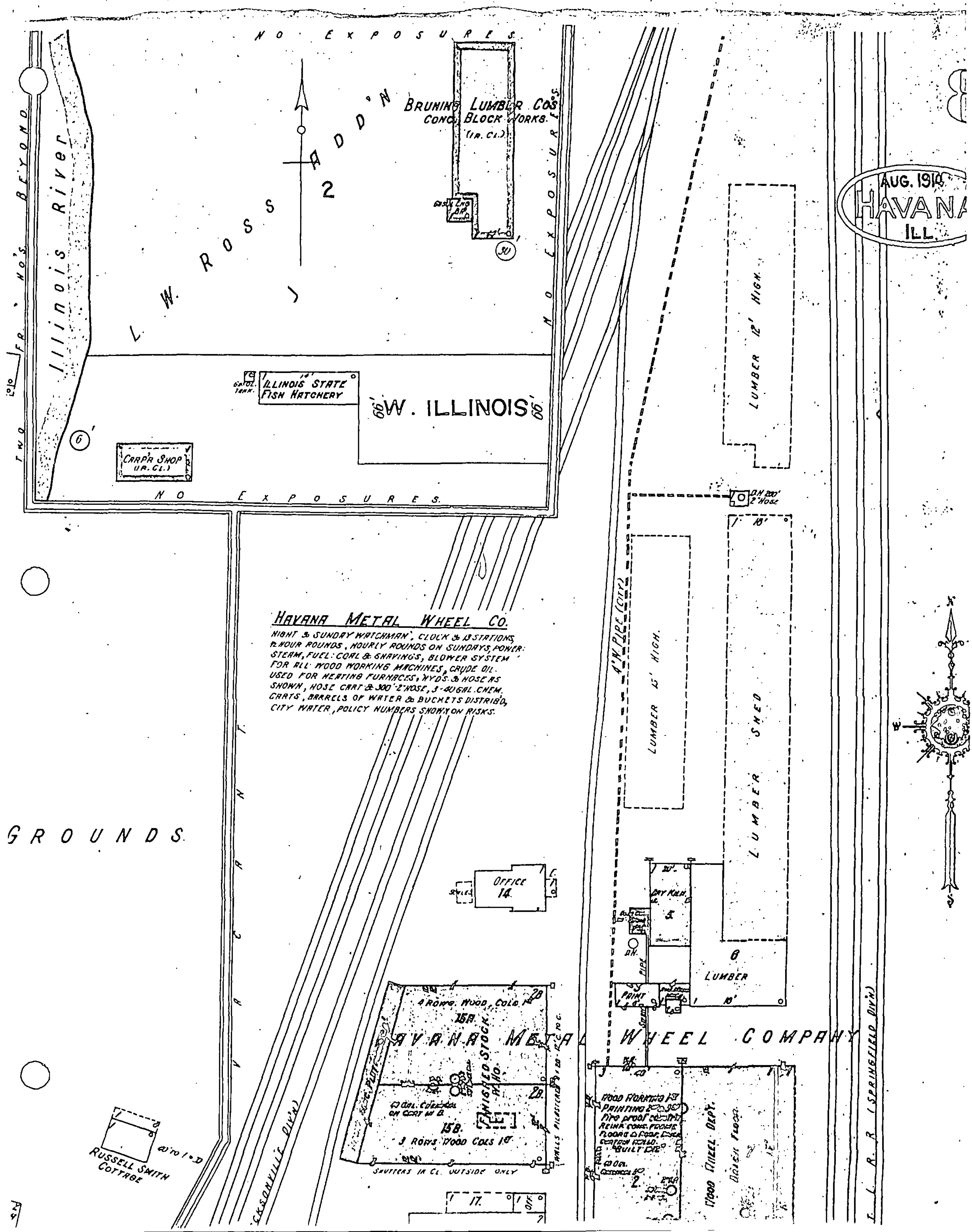
SPECIALS

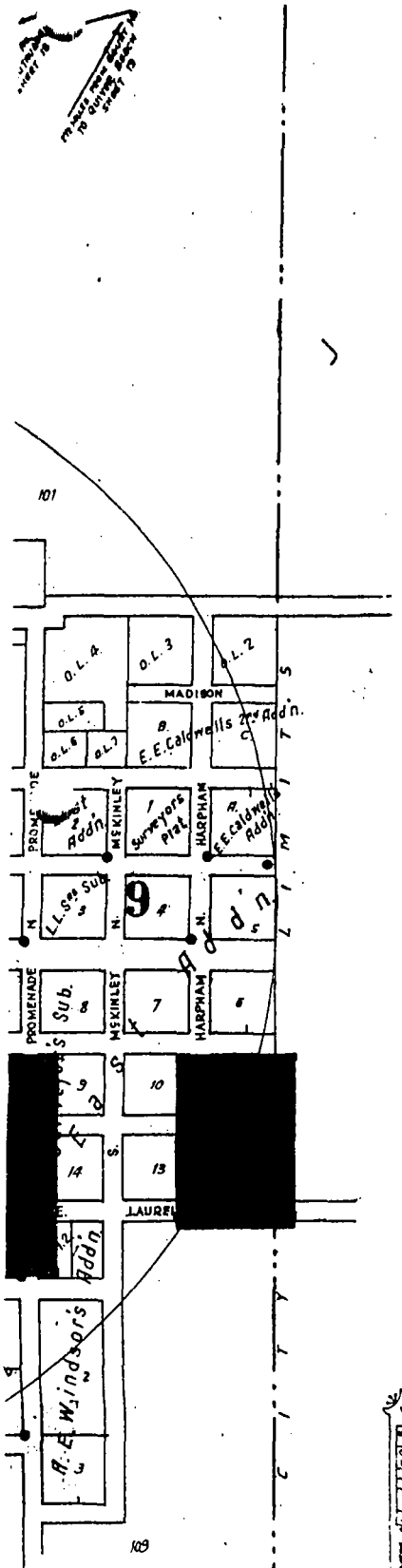
* Indicates only one side of Street shown.

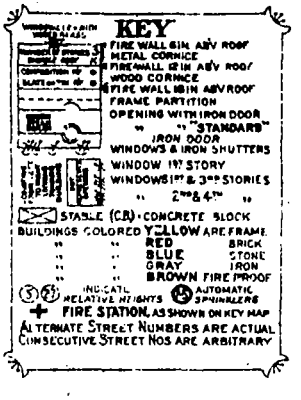
PASTURE LAND BEYOND

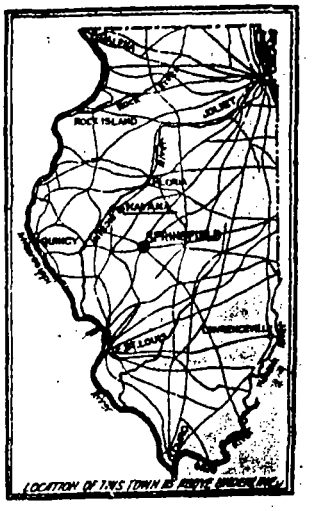



Office 10
Lumber
Havana Metal Wheel Company
4 Rows Wood Cols 1st
Finished Stock
3 Rows Wood Cols 1st
Shutters in Cl. outside only
Russell Smith Cottage
C. P. & St. L. R. R. (Jacksonville Div'n)
C. P. & St. L. R. R. (Springfield Div'n)
Wood Working 1st
Painting 2nd
Wood Wheel Dept.
Brick Floor
Machine Shop
Wood Dept.
Storage
Polishing
Dipping 1st
Wood Working 2nd
Pattern
Coal
Coke
Furnaces
Foundry
Bk. Lined & Iron Clad
Steel Storage
Iron Room
Lights Raised
Brick Floor
Stock Shed
Scale
4" W. Pipe
Crescent Forge & Shovel Company
Coal
Grinding Room
Raised Lights 3'
Bk. Fl'r.
Bl. Sm.
Pattern Storage
Pattern
Lumber (In. Cl.)
Oil
Oil No.
Stock
Bl. Sm. & Fitting Dept
Cutting Room
Grinding & Polishing
Raised Lights 4'
Brick Floor
Ware Room
Office
Plank Floor
Ware Room
W. Tinkham
Pear
Off.
Dipping Room (In. Cl.)
Crescent Forge & Shovel Co.
Watchman & Newman Clock, 10 hourly rounds, 8 stations, hyd. & 200'-2 hose, use of hose cart at Havana Metal Wheel Co, barrels & buckets distrib'd, heat: steam, lights: elec, fuel: coal & shavings in boilers, & crude oil in furnace
No exposures beyond.


8
AUG. 1910
HAVANA
ILL.
NO EXPOSURES.
BRUNING LUMBER CO'S
CONC. BLOCK WORKS.
(IR. CL.)
L. W. ROSS ADD'N
2
Illinois River
TWO FR. HO'S. BEYOND.
ILLINOIS STATE
FISH HATCHERY
W. ILLINOIS
66'
CARP'R SHOP
(IR. CL.)
NO EXPOSURES.
NO EXPOSURES.
LUMBER 12' HIGH.
LUMBER 15' HIGH.
LUMBER SHED
4" W. PIPE (CITY)
HAVANA METAL WHEEL CO.
NIGHT & SUNDAY WATCHMAN, CLOCK & 13 STATIONS,
12 HOUR ROUNDS, HOURLY ROUNDS ON SUNDAYS, POWER:
STEAM, FUEL: COAL & SHAVINGS, BLOWER SYSTEM
FOR ALL WOOD WORKING MACHINES, CRUDE OIL
USED FOR HEATING FURNACES, HYD'S & HOSE AS
SHOWN, HOSE CART & 300' 2" HOSE, 3-40 GAL. CHEM.
CARTS, BARRELS OF WATER & BUCKETS DISTRIB'D,
CITY WATER, POLICY NUMBERS SHOWN ON RISKS.
GROUNDS
OFFICE
14
DRY KILN
5
LUMBER
6
PAINT
HAVANA METAL WHEEL COMPANY
4 ROWS WOOD COLS 1st
15A
FINISHED STOCK W. HO.
15B
3 ROWS WOOD COLS 1st
SHUTTERS IN CL. OUTSIDE ONLY
WOOD WORKING 1st
PAINTING 2nd & 3rd
WOOD WHEEL DEPT.
DRIER FLOOR
2
17
RUSSELL SMITH COTTAGE
(SPRINGFIELD DIV'N)
JACKSONVILLE DIV'N







(CMC.)

1

HAVANA INCLUDING QUIVER BEACH

MASON COUNTY

ILLINOIS

SANBORN MAP COMPANY

of NEW YORK

JULY 1925

OCT 19 1925

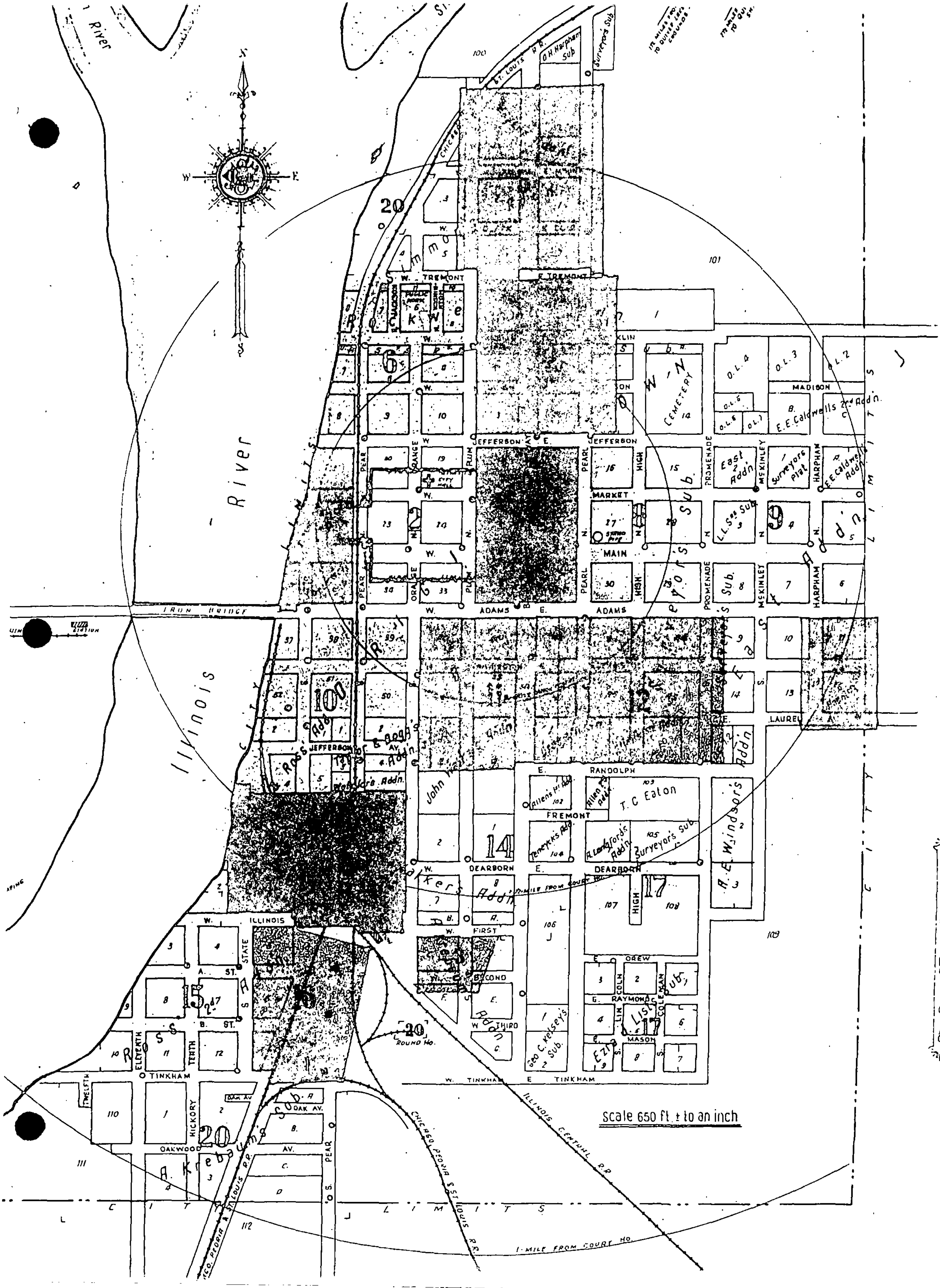
great care has been exercised in the production of our publications and in our service, but absolute accuracy is not guaranteed.

Population 4000. Prevailing Winds - S.W.

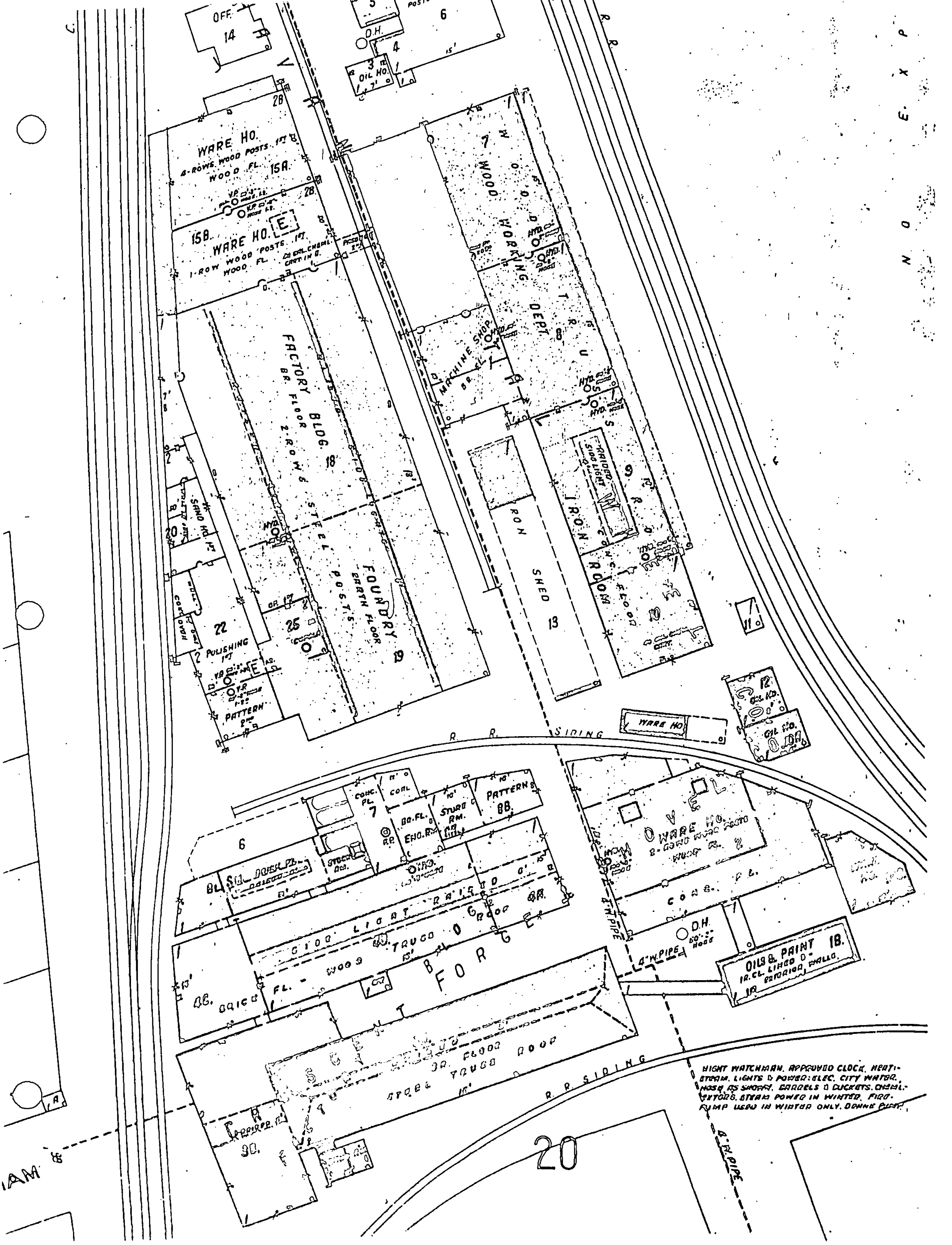
WATER FACILITIES: water works municipal ownership. Gravity & direct pressure system. Source of supply 8-6" driven wells 75' deep. 2-Deane steam pumps, size 8x18½x12. combined capcy. 3,000,000 gals. per 24 hours. Average daily consumption 2,250,000 gals. Stand pipe capcy. 50,000 gals. elevated 90' above business section. 15-miles of 4"-6" & 8" water pipe. 76 O.H's. Domestic pressure 57 lbs. Fire pressure 118 lbs.

FIRE DEPARTMENT: Two paid drivers. Volunteer chief, asst. chief & 8-men. 1-Fire station. 1-Republic 25H hose wagon, equipped with 800'-2½" C.R.L. hose. Fire alarm-bell, whistle & telephone.

8½-Miles brick & conc. paving. Grades nearly level. Public lighting: electric.

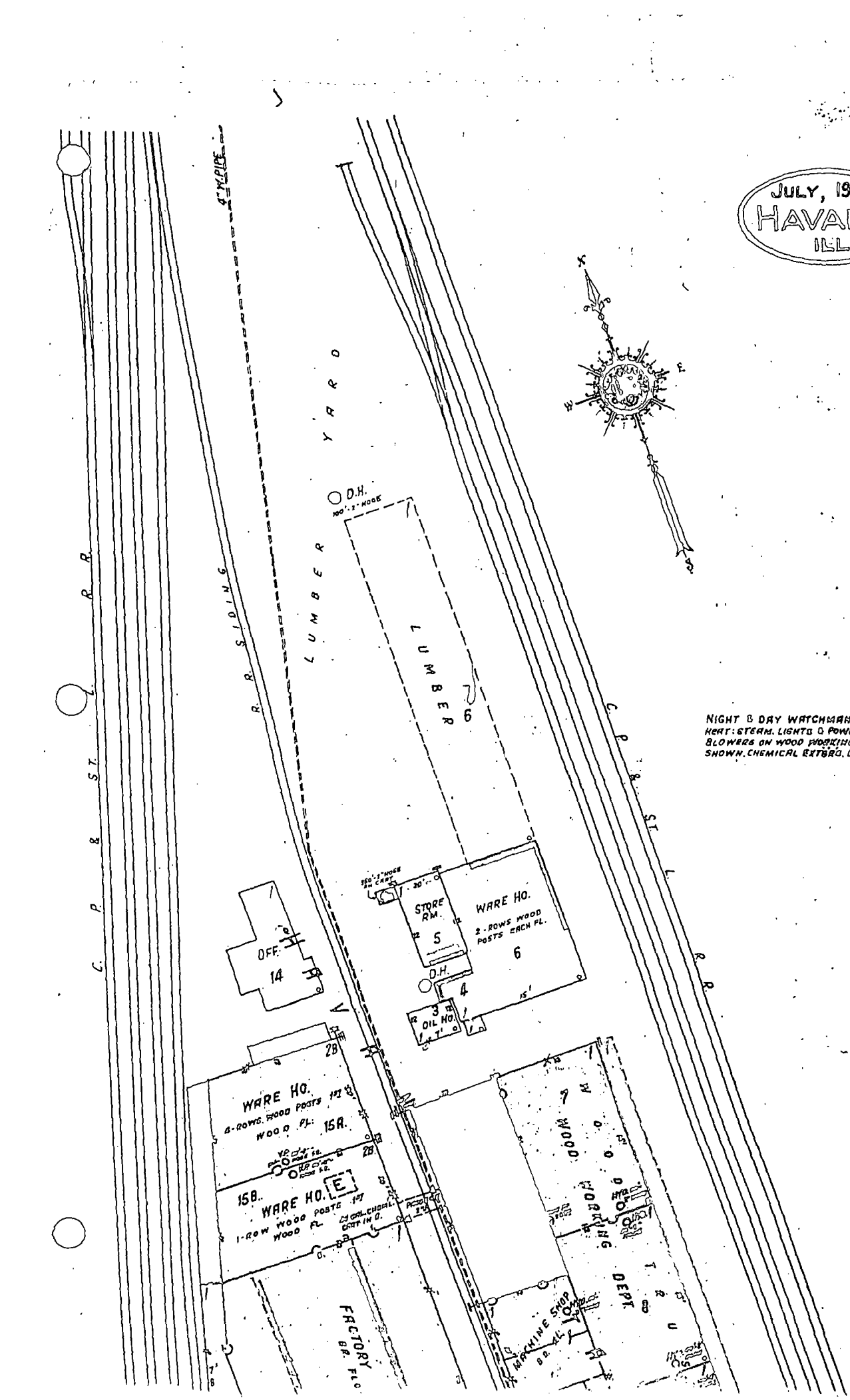


River
Illinois River
IRON BRIDGE
CITY LIMITS
ST. LOUIS R.R.
O.H. Harpham Sub
Surveyor's Sub.
W. TREMONT
E. TREMONT
FRANKLIN
MADISON
CEMETERY
E.E. Caldwells 2nd Addn.
W. JEFFERSON
E. JEFFERSON
MARKET
MAIN
W. ADAMS
E. ADAMS
PEARL
ORANGE
PLUM
HIGH
PROMENADE
McKINLEY
HARPHAM
East Addn.
Surveyors Plat
E.E. Caldwells Addn.
L.L. Sub.
Surveyors Sub.
LAUREL
RANDOLPH
FREMONT
DEARBORN
JEFFERSON AV.
Ross's Addn
Jno Ross Addn.
T. C. Eaton
Allens 1st Add.
Allen's 2d Addn.
Surveyors Sub.
A. E. Windsors Addn
Walkers Addn
1/2 MILE FROM COURT HO.
W. ILLINOIS
STATE
A. ST.
B. ST.
W. FIRST
SECOND
W. THIRD
DREW
RAYMOND
LINCOLN
COLEMAN
MASON
Ezra List Sub.
Geo. C. Kelsey's Sub.
ROUND Ho.
ELEVENTH
TENTH
TWELFTH
TINKHAM
W. TINKHAM
E. TINKHAM
HICKORY
OAK AV.
OAKWOOD AV.
S. PEAR
A. Krebaum's Sub.
ILLINOIS CENTRAL R.R.
CHICAGO PEORIA & ST. LOUIS R.R.
Scale 650 ft. ± to an inch
1 MILE FROM COURT HO.


OFF.
14
D.H.
OIL HO.
6
WARE HO.
4-ROWS WOOD POSTS 1ST
WOOD FL.
15A.
15B.
WARE HO.
1-ROW WOOD POSTS 1ST
WOOD FL.
FACTORY BLDG.
BR. FLOOR
2 ROWS STEEL POSTS
18
FOUNDRY
EARTH FLOOR
19
25
SAND HO.
22
POLISHING
PATTERN
7
WOOD WORKING DEPT.
MACHINE SHOP
8
IRON SHED
13
IRON ROOM
10
11
12
OIL HO.
WARE HO.
R.R. SIDING
COAL
STORE RM.
PATTERNS
ENG. RM.
STOCK RM.
WARE HO.
2-ROWS WOOD POSTS
D.H.
4"W.PIPE
OILS & PAINT
18.
FORGE
R.R. SIDING
NIGHT WATCHMAN. APPROVED CLOCK. HEAT: STEAM. LIGHTS & POWER: ELEC. CITY WATER. HOSE AS SHOWN. BARRELS & BUCKETS. CHEM. EXTGRS. STEAM POWER IN WINTER. FIRE PUMP USED IN WINTER ONLY.
20
4"W.PIPE

JULY, 1925.
HAVANA
ILL.

16



NIGHT & DAY WATCHMAN. APPROVED CLOCK.
HEAT: STEAM. LIGHTS & POWER: ELEC. CITY WATER.
BLOWERS ON WOOD WORKING MACHS. HOSE AS SHOWN. CHEMICAL EXTRS. BARRELS & BUCKETS.

(CHIC.)

1

39

All information contained in this map, covering properties that might be related to National Defense activities, is to be treated as **strictly confidential** by our subscribers and not divulged to any outside interests. The U. S. Espionage Act makes it incumbent upon possessors of information relating to National Defense to take all possible precautions to prevent it from falling into the hands of interests inimical to the United States.

CORRECTION RECORD			
REVN NO.	DATE OF CORRECTION	ATTACHED BY	DATE ATTACHED
3	2-1946	E Harrison	1-4-46

HAVANA INCLUDING QUIVER BEACH

MASON COUNTY

ILLINOIS

SANBORN MAP COMPANY

of NEW YORK

JULY 1925

Great care has been exercised in the production of our publications and in our service, but absolute accuracy is not guaranteed

Population 4,000. Prevailing Winds - S.W.

WATER FACILITIES:

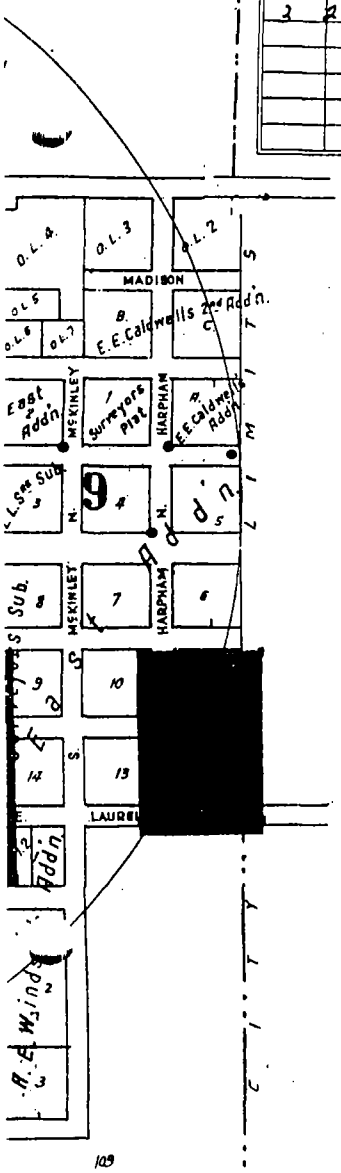
Ownership Municipal. Source: 1- Porous Conc. well 27" diam 75' deep. System: Gravity pressure. Pumps: 2-Fairbanks-Morse cent. single-stage pumps, capcy. 700 G.P.M. each. Gravity tank capcy. 50,000 gals. elev'd 90' above business district. Average daily consumption 1½ million gals. 15 miles of water mains, 4" to 8" in diam. 80 D. Hydts. Pressure 48 lbs. Main & Orange Sts.

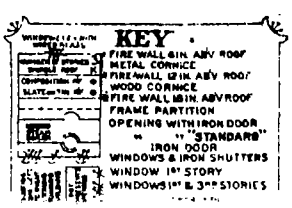
FIRE DEP'T:

1-chief & 8 men paid per run. 2 paid men. 1-fire station. 1-dodge truck with pump capcy. 500. G.P.M. - 45 gal. chem. tank, 150' chem. hose, 800' 2½" hose, 300' 1½" hose.

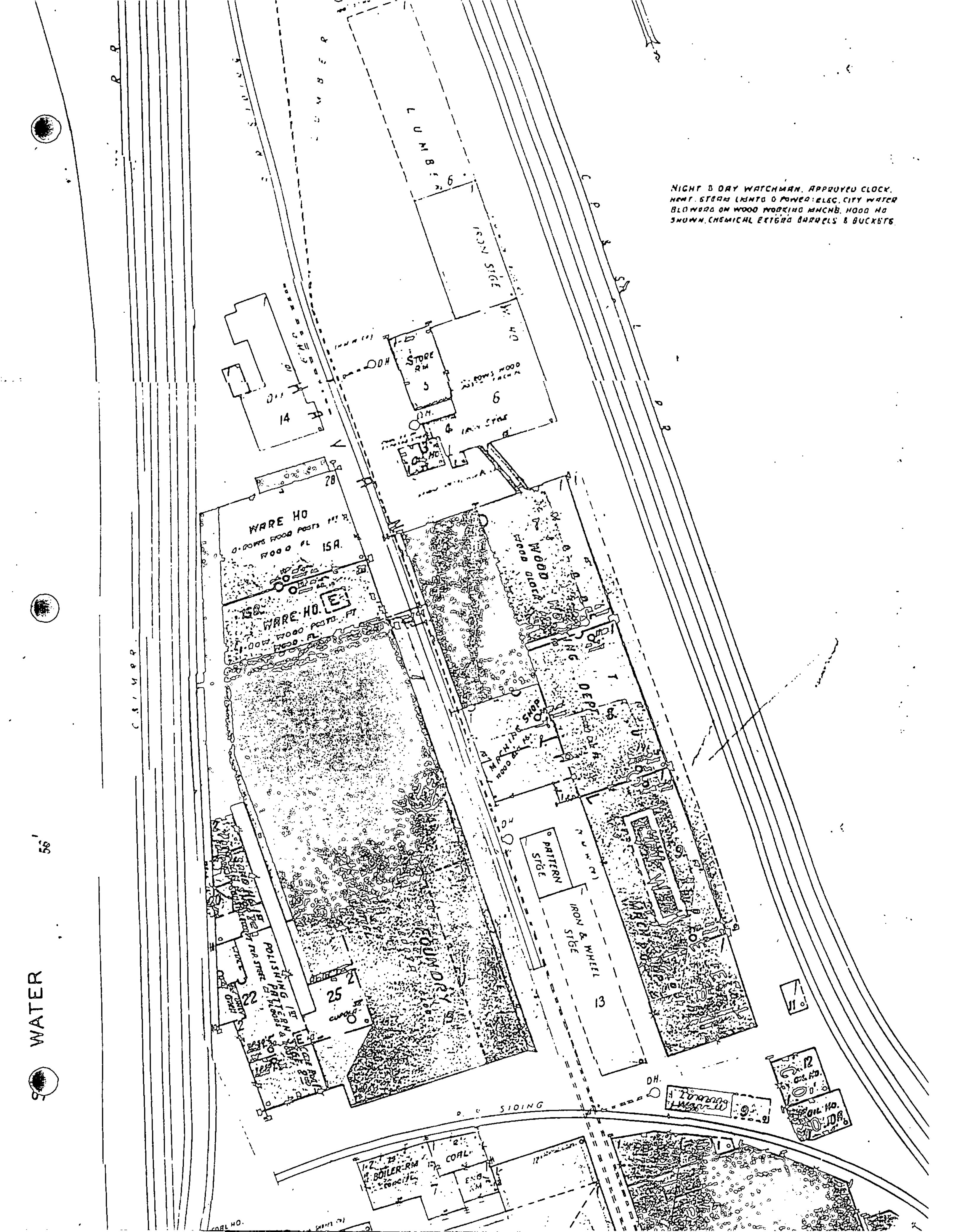
1-seagrave truck with pump capy. 500 G.P.M., 200 gal. booster water tank, 150' 1½" hose, 1150' 2½" hose, 300' 1½" hose, 150' chem. hose, 400' 2½" hose in reserve, fire alarm telephones & siren.

No fire resistive roofing ordinance





109


NIGHT & DAY WATCHMAN. APPROVED CLOCK.
HEAT: STEAM LIGHTS & POWER: ELEC. CITY WATER
BLOWERS ON WOOD WORKING MACHS. HOOD HO
SHOWN. CHEMICAL EXTG'RS BARRELS & BUCKETS.
LUMBER
6
IRON STGE
STORE RM
5
6
DH.
14
28
WARE HO
WOOD FL
15A
WARE HO
15B
WOOD WORKING DEPT
MACHINE SHOP
PATTERN STGE
IRON & WHEEL STGE
13
FOUNDRY
25
CUPOLA
22
POLISHING
PATTERN
SIDING
OIL HO.
BOILER RM
COAL
ENG RM
WATER
56

Reference Number 2

Illinois Environmental Protection Agency
Division of Land Pollution Control

INSPECTION REPORT

USEPA #: IL D005229497 IEPA #: 1250205005

Facility Name: Prairieland Steel Phone #: 309-543-2281

Street Address: 550 S. Pear County: Mason

City: Havana State: Illinois Zip: 62664

Region: 5 Inspection Date: 06/14/90 From: 10 am To: 12:30 pm

Weather:

TYPE OF FACILITY

Notified As: Gen / Storage Regulated As: Gen - 5

LDF? (Yes or No) HPV? 90-Day F/U Required?: YES _____ NO _____

TYPE OF INSPECTION

RCRA: _____ Sampling: _____ Citizen Complaint: ✓ Closed: _____ Other: _____

Record Review: _____ Follow-Up to Inspection of: _____ Withdrawal: _____

NON-REGULATED STATUS

SQG: _____ Claimed Nonhandler: _____ Other (Specify in Narrative): _____

PART A

Notification Date: 8/18/80, from (initial) or (subsequent) Notification.

Initial Part A Date: 10/10/80 Amended: ___/___/___

Part A Withdrawal requested: ___/___/___ Date Unknown Approved by (US)(IL) EPA: ___/___/___

Withdrawal? per printout

PART B PERMIT APPLICATION

N/A

Part B Permit called by (US)(IL) EPA on: ___/___/___ Permit Due: ___/___/___

Part B Permit Submitted: ___/___/___ Draft Permit Issued: ___/___/___

ENFORCEMENT

N/A

Has firm been referred to: USEPA? _____ IAG? _____ County SA? _____

Date(s) of initial referral: ___/___/___ ___/___/___ ___/___/___

USEPA CACO: ___/___/___ CAFO: ___/___/___ ALJ Decision: ___/___/___

Referral to DOJ by USEPA: ___/___/___ Federal Court Order Issued: ___/___/___

PCB Order Issued: ___/___/___ State Court Order Issued: ___/___/___

TSD FACILITY ACTIVITY SUMMARY

Activity by Process Code	On Part A?	Activity Conducted Prior to 1980?	Was Activity Ever Done?	Closed	Being done at Time of Insp.?	Exempt per 35 IAC, Sec.	On Annual Report		
501	Yes	Ukn.	Yes	Ukn	Yes	once a SQG			

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SUMMARY OF APPARENT VIOLATIONS
PAGE 2

Area	Class	Section

Area	Class	Section

Area	Class	Section

Area	Class	Section

Area	Class	Section

Area	Class	Section

RCRA INSPECTION NARRATIVE

DATE 6-14-90 LPC # 1250205005 ILD # 005229497

INSPECTOR S. Townsend Mason COUNTY

Havana / Prairieland Steel, Inc.

Responses to the following questions are to be numbered in the same sequence.

1. Describe the products made, production processes, and/or services provided at the facility.

2. Describe how and where each waste listed in the waste disposition form is or has been accumulated and/or stored, and attach a map or sketch, and photos showing these locations.

3. Describe how and where each waste listed in the waste disposition form is or has been treated and/or disposed, and attach a map or sketch, and photos showing any on-site treatment or disposal areas.

4. Describe and explain any unusual events, occurrences, or application of The regulations.

5. Describe any exemptions from the regulations the facility qualifies or may qualify for.

6. Describe how and why the facility is regulated for the wastes handled.

7. List any attachments to your inspection by number or letter and briefly describe.

8. Summarize the apparent violations by section or subsection number and provide a brief description.

9. Provide any other comments pertinent to the inspection.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

NARRATIVE INSPECTION REPORT DOCUMENT

Date of inspection: June 14, 1990 Inspectors: S. Townsend
J. Miles

Site code: 1250205005 County: Mason

Site name: Havana/Prairieland Steel Time:10:00a.m.-12:30p.m.

GENERAL REMARKS

On June 14, 1990 the above referenced facility was inspected by Jim Miles, DWPC and Steve Townsend (this author), DLPC of this Agency in response to a complaint (# LR1453). This facility notified the Agency as Prairie Steel, Inc. as a generator of hazardous waste on August 18, 1980. The facility notified as a storage facility via part A of the permit application on October 10, 1980. The application was apparently withdrawn. Mr. John Dupuy, President, Ms. Duke Danner, Office Manager, and Ms. Marcia Lasswell, Secretary for Prairieland Steel, Inc. were interviewed. Mr Dupuy and Ms. Danner accompanied us on the site inspection. According to Mr. Dupuy the name of the company has been Prairieland Steel, Inc. since he purchased the company in 1985. The company was originally Prairie Steel. The original name is still used for some business purposes.

The following items are numbered to correspond to the questions on the attached RCRA Inspection Narrative cover page:

1. Products, Processes and Services:

Prairieland Steel redraws ferrous wire. The following processes and services are done on site:

A. Annealing.

-- Wire is heated in an ammonia atmosphere in an electric furnace to soften the steel. This enables the wire to be more easily reworked.

B. Re-Die Process.

-- Raw material stock 304 and 316 stainless steel are drawn through one of four dies to give the wire the desired shape and thickness. Electric motors are used to pull the wire through the redraw device. Soap flakes are used as a lubricant in this process.

C. Cooling.

-- Wire is run through a non-contact cooling system. This enables the wire to better use the flux tank and more easily adhere to the lead from the lead pot.

D. Flux Tank.

-- Wire is run through a flux tank containing Ammonium Chloride and water. This process enables the lead from the lead pot process to better adhere to the wire.

E. Lead Pot Process.

-- Drops of lead are put on the wire to act as a lubricant. Wire is wound by being pulled by a spool during this process (See photo #4 roll 152).

F. Wire Cleaning.

-- Wire is cleaned in a 3:1 dilute mixture of Nitric Acid. The wire is cleaned in a dip tank system. The system includes one 1500 - 2000 gallon acid tank and one 1000 gallon tank. Several other empty tanks and a tank containing overflow were also located in this area (See photo #3 roll 152).

G. Maintenance.

-- Hydraulic fluids in fork lift trucks are changed on site. Other small equipment and site repair jobs are done by site personnel. Major and electrical repairs are done by outside help from specialized contractors such as Griffin Electric for electrical work.

-- Degreasing of parts with 1:1:1-Trichloroethane solvent is done on site. According to Mr. Dupuy the solvent is filtered and reused on site when it becomes to soiled for degreasing. The grease which is filtered out has remained in the filter trap to date. According to Mr. Dupuy no waste solvent or filter grease has been generated.

2 and 3. <u>Waste Accumulation / Storage and Waste Disposition:</u>

A. Waste Acid (D002, D008 - Undetermined) -- This waste is generated when the Nitric Acid dip tanks are changed. According to Mr. Dupuy the tank is changed about once a year when the acid becomes weak. He also said the waste is hauled off site for treatment. The last time this was done was January 19, 1988 according to the manifest search. The waste was sent to Envirite Corp in two shipments. One contained 3,848 gallons and the other contained 2,505 gallons (See Attachment E, photo #3 roll 152 and site sketch).

B. Waste Lubricant Soap (D008) -- This waste is generated by the wire drawing/diing process as spent contaminated lubricant. The soap becomes contaminated with lead. A waste determination done by Safety Kleen for this waste indicates the material is hazardous due to lead toxicity. This waste is accumulated in 55 gallon drums near the points of generation. Full drums are placed in the back room of the facility. This waste has been stored on site. No final disposition for this waste had been determined at the time of the inspection. Mr. Dupuy stated that he believed he could reuse the material after running the spent material through a screen to remove the large screen (See photos 5 through 7 roll 152 and comments below).

C. Waste Solvent (F001) -- This waste is generated by changing the 1:1:1-Trichloroethane solvent in the small parts washer used on site. The solvent in the parts washer is filtered and reused according to Mr. Dupuy. The manifest search done prior to the inspection indicates a waste bearing the same hazardous waste number was shipped off site on April 27, 1989 (See photo #3 roll 152, site sketch and comments below).

D. Waste Materials from Previous Operator (D008 - Undetermined) -- This waste was generated by the previous operator. According to Mr. Dupuy this waste was left there by the previous owner/operator prior to the time he took over. Mr. Dupuy said he bought and began running the place in 1985. These wastes included contaminated soap, dross and grease (See photos 6 and 7 roll 152, site sketch and comments below).

E. Lead Dross (D008 - Undetermined) -- Lead dross is generated by the lead pot process. The dross is accumulated in a 55 gallon drum near the process area. Full drums are placed in area A (See photos 4 and 5 roll 152 and Apparent Violations below).

F. Waste Oils (Non-Hazardous) -- Waste oils are accumulated in 55 gallon drums near area A.

G. Waste Grease (D001) -- A Drum of this waste was located among the drums of waste left by the previous operator in area B.

4. **Unusual Events or Occurrences:** -- N/A

5. **Exemptions:** -- N/A

6. Regulated Status:

This facility submitted a Notification of Hazardous Waste Activity (form 8700-12) on August 18, 1980 and a Part A - Storage Facility Permit application (form 3510-3) on October 10, 1980. The most current USEPA printout indicates that the facility is exempt from regulation due to small quantity generator status (generation of less than 100 kg (220 lbs) of hazardous waste in a calendar month. This facility generates waste lead-contaminated lubricant, lead dross, waste oils, and acid wastes. This facility may also generate waste cleaning solvent. During times of Acid waste generation more than 1000 kg (2200 lb) of hazardous waste are generated in a calendar month. This facility also stored lead contaminated waste lubricants, lead dross and grease on site for well over 90 days in accumulation area A. These wastes may not be considered hazardous wastes if they are being accumulated prior to reclamation, provided they are reclaimed or sent off site for reclamation before January 1,1991. This facility is apparently regulated as a large generator (more than 1000 kg (2200 lbs.)) of hazardous waste. This facility is also apparently regulated as a storage facility due to the wastes which were accumulated over 90 days in area B. Several drums containing unknown wastes were also found on site. If any of these wastes are determined to be hazardous this facility will have generated more than what is accounted for above (See comment E below and site sketch).

7. Attachments:

The following attachments were received by this author from Ms. Danner during the inspection:

A. Waste Grease Analysis Results -- This attachment is a copy of the analysis report done by Safety Kleen. The results indicate that this waste is a hazardous waste due to ignitability (D001). This attachment consists of 2 pages of information.

B. Waste 1:1:1-Trichloroethane Analysis Results -- This attachment is a copy of the analysis report done by Safety Kleen. The results indicate that this waste is a listed hazardous waste due to the presence of 1:1:1 Trichloroethane (F001). This attachment consists of 2 pages of information.

C. Waste Soap Analysis Results -- This attachment is a copy of the analysis report done by Fed. Env. Svcs. The results indicate that this waste is a hazardous waste due to the E.P. Toxicity for lead (D008). This attachment consists of 1 page of information.

D. Site Map -- This attachment is a copy of a drawing of the plant. The location of the equipment and processes are shown

on the drawing. This attachment consists of 2 pages of information.

The following attachments were generated by the Agency as a result of this inspection:

E. Manifest Search -- This attachment is a copy of the manifest search run for hazardous waste shipments originating from this facility. The search indicated that waste shipments varied greatly in both volume and type of waste. Frequency of the shipments was sporadic. This attachment consists of 2 pages of information.

F. Confidential Complaint Memo -- This attachment is a copy of a memo which details conversations this author had with a complainant who called regarding this site after the initial complaint inspection. This attachment consists of 2 pages of information.

G. DWPC Complaint Inspection Memo -- This attachment is a copy of a memo written by Jim Miles of this Agency, DWPC which details his findings of the joint complaint inspection conducted on June 14, 1990 with this author. This attachment consists of 2 pages of information.

8. Apparent Violations:

The following apparent violations were cited as a result of the inspection. Violation numbers correspond to the section of 35 ILL Adm. Code where the regulation is found:

722.111 -- **Hazardous Waste Determination** -- Hazardous Waste Determination -- The following waste or unknown materials had inadequate or no hazardous waste determination made on them:

A. Waste in Drums Left by Previous Operator -- Open-bung and top drums containing what appeared to be lead contaminated waste similar to what is currently generated were found in the back room in a drum storage area (Area B). Mr. Dupuy said that these drums were placed in the area by the previous owner. No determination for this waste was available on site (See photos 6 and 7 roll 152).

B. Lead Dross -- Drums containing some lead dross were found in the drum storage area (Area A). Final disposition for this material had not been made at the time of the inspection. This material would be considered a hazardous waste due to E.P. Toxicity if it is determined to be a solid waste. If this material is reclaimed or reprocessed into a usable material it may be considered a by-product and not a waste. The material is apparently not reusable without

reprocessing. If it is not reclaimed it will definitely be considered a solid waste and thus a hazardous waste (See photos 4 and 5 roll 152).

C. Lead Contaminated Soap -- Drums containing some lead soap were found in the drum storage area (Area A). Final disposition for this material had not been made at the time of the inspection. This material would be considered a hazardous waste due to E.P. Toxicity if it is determined to be a solid waste. If this material is reclaimed or reprocessed into a usable material it may be considered a spent material being speculatively accumulated prior to reclamation and not a regulated waste. The material is apparently not reusable without reprocessing. If it is not reclaimed it will definitely be considered a hazardous waste (See photo #5 roll 152).

D. Waste Material on Ground -- No documentation of the types or amounts of materials which were spilled on the ground to in the waste accumulation and storage areas in the plant was found on site (See photos 4 through 6 roll 152).

722.134 -- Accumulation Time -- Containers of hazardous waste were left on site since before Mr. Dupuy purchased the plant in 1985. These containers were still on site in area B. Containers of similar spent materials generated since Mr. Dupuy took over operations were also found on site in area A. Mr. Dupuy stated that these spent materials were generated this year. These spent materials included lead contaminated soap and lead dross. Mr. Dupuy stated that he believed he could reuse the lead contaminated soap by putting it through a screening device on site to remove large chunks. The lead dross may be reclaimed off site and thus considered a by product and not a waste. If 75% of these materials are made into usable products before the beginning of the next calendar year they will have been exempted from the 90 day accumulation time limit for hazardous wastes due to acceptable accumulation of spent materials prior to reclamation. If these materials are not made into usable products by January 1, 1991, they will be considered wastes. This area will also be considered a storage area at that time (See 721.106 -- Requirements for Recyclable Materials and photos 5 through 7 roll 152 and site sketch).

722.134 (a) (2) and (3) -- Accumulation Time / Marking of Containers -- Containers of hazardous waste lead contaminated soap and dross which were being accumulated did not have accumulation start dates or the words "Hazardous Waste" marked on them (See photos 4 through 7 roll 152 and site sketch).

722.134 (a) (1) -- Accumulation Time / Management of Containers -- Containers of hazardous waste lead contaminated soap and dross which were being accumulated were left uncovered (See photos 4 through 7 roll 152 and site sketch).

722.134 (c) (1) -- Accumulation Time / Satellite Accumulation -- (A). Containers of hazardous waste lead contaminated soap and dross which were being accumulated near the point of generation were left uncovered (See photo #4 roll 152 and site sketch).

-- (B). Containers of hazardous waste lead contaminated soap and dross which were being accumulated near the point of generation did not have the words "Hazardous Waste" or other words that identify the contents marked on them (See photo #4 roll 152 and site sketch).

722.134 (c) (2) -- Accumulation Time / Satellite Accumulation -- Full containers of hazardous waste lead contaminated soap and dross which were being accumulated were not in compliance with 722.134 (a) within three days of filling or with 722.134 (c) (1) as described above (See photos 4 through 7 roll 152 and site sketch).

722.141 (a) -- Generator Annual Report / Wastes Shipped Off Site -- No annual report for F001 waste shipped off site in 1989 was submitted by this facility. The annual reports which were submitted for 1988 and 1989 incorrectly described the facility as a small quantity generator. Information listed in these reports confirms that this description is incorrect.

722.141 (b) -- Generator Annual Report / On Site Storage -- No annual report for wastes stored on site for 1987 through 1989 was submitted by this facility. The annual reports which were submitted for 1988 and 1989 incorrectly described the facility as a small quantity generator. Information listed in these reports confirms that this description is incorrect.

725.175 (b) -- TSD Annual Report / On Site Storage -- No annual report for wastes stored on site for 1987 through 1989 was submitted by this facility.

725.212 (a) -- Closure / Closure Plan -- This facility apparently operated a Storage facility without a written closure plan containing the information described in 725.212 (b). These documents may or may not exist. I was unable to verify the existence of a closure plan during the inspection. No closure plan has been submitted to the Agency.

Additional violations related to the storage of hazardous wastes will be added subject to a record review.

9. Comments:

A. The manifest search run for this facility indicates some gaps concerning the management of waste at this site. These gaps include varying of waste types used for the waste stream number and long time periods without shipments disposal being recorded (earlier shipments were fairly regular in both volume and frequency - see attachment E).

B. A Junk pile which appeared to contain largely scrap metal was located west of the plant. Mr. Dupuy stated that no lead contaminated wastes were placed in the junk pile. A complaint was received which stated that such wastes are dumped in the pile. The pile was not closely examined at this time.

C. Complaint # LR1453 alleged that lead contaminated acid wastes were being discharged to the drains on site. A drain was found near the acid tanks. Mr. Dupuy stated that no acid waste is discharged to the drains. No samples were collected at this time. No other evidence of such a discharge was noted. It was impossible to determine if staining was present near the drain area due to water on the floor.

D. This facility has stored waste over 90 days in area B (possibly area A also). A RCRA permit or a closure of the waste storage area will be required to resolve this violation.

E. This facility's 1988 annual report signed by Ms. Danner indicated that 3,848 gallons and 2,505 gallons were shipped off site on as a one time generation. This exceeds the amounts which would allow the facility to claim small quantity generator exemption status. A March 5, 1982 letter from the Agency advised the facility that they would be subject to regulation as a RCRA generator if they generated more than 1000 kg (2200 lb) of waste in any one month. Facility personnel confirmed that this amount was exceeded during the June 14, 1990 inspection. This facility is a large quantity generator.

Steven C. Townsend Date: Aug. 13, 1990

Attachment G

12502C5CC5
6-14-90

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

RECEIVED
SPRINGFIELD REGION
JUL 13 1990
ENVIRONMENTAL PROTECTION AGENCY
STATE OF ILLINOIS

DATE: July 12, 1990

TO: Field Operations Section and Records Unit/DWPC

FROM: James L. Miles, DWPC/FOS Springfield Region

SUBJECT: Prairie Steel Company, Havana (Mason County) Complaint LR1453

On June 14, 1990, the writer and Steve Townsend, DLPC/FOS - Springfield, conducted a complaint investigation at the Prairie Steel Company, 550 South Pear Street, Havana, (309) 543-2281. Mr. John Dupuy, President, and Ms. Duke Danner, Office Manager, were interviewed.

The formal complaint (Complaint # LR1453) registered with the DWPC alledged that waste generated at Prairie Steel was not being properly disposed of.

Prairie Steel Company rounds and profiles stainless steel wire, SIC 3496. The raw stainless steel is cold drawn through dies to form it to specified shapes. Once through the dies, the steel is then cleaned in a nitric acid bath, removing any foreign material or dry lubricant left from the process.

The cleaning process consists of dipping the formed steel in a 3:1 nitric acid bath and rinsing it with potable city water. Two tanks, one 1500-2000 gallons and the second 1000 gallons, are used to contain the acid and rinse water during the cleaning.

Mr. Dupuy stated that once the acid has lost its strength, new acid is added with no discharge occurring from the tanks. There have been no documented removal of waste liquid from the acid cleaning tanks. There was a floor drain in the vicinity of the tanks. When Mr. Dupuy and Ms. Danner were questioned about its use and type, sanitary, storm, or internal, neither one knew, but stated that only potable city water was discharged into it. The writer stated that the drain should be capped or diked to prevent unauthorized discharges. City water could directly be discharged to the drain. Spillage from the acid tanks should be returned to the process or properly contained and disposed of.

In a back storage area located in the southwest corner of the building, several drums were stored. The contents of the drums were unknown. A few of the drums appeared to have been externally ruptured at the bottom. A rubber hose was noted lying next to a floor drain in the room. Again Mr. Dupuy and Ms. Danner were unable to identify the type of drain or the purpose of the hose.

The majority of the wire forming and finishing processes appeared to be dry, with minimal potential of a discharge to the waters of the state or to the Havana sewer system. The potential did exist in the area of the acid cleaning tanks. There was no evidence of recent discharges, routine or accidental, at the time of the inspection.

Mr. Dupuy and Ms. Danner's knowledge of the facility's drainage system, the operations of the acid tanks, and the ruptured drums and rubber hose noted in the storage area, raises suspicion on the company's waste disposal practices. Routine influent Agency sampling at the Havana STW have revealed no abnormal waste characteristics that could be exclusively associated with Prairie Steel. No apparent violations of WPC Subtitle C were noted during the inspection. The DWPC/FOS will continue to monitor Prairie Steel's waste through DLPC manifest requirements.

JLM/gm4,5 JLM

cc: Steve Townsend, DLPC/FOS, Springfield Region ✓
DWPC/Springfield Region

REFER TO:

WITHHELD LIST/ENVELOPE -- DOCUMENT NO. 2

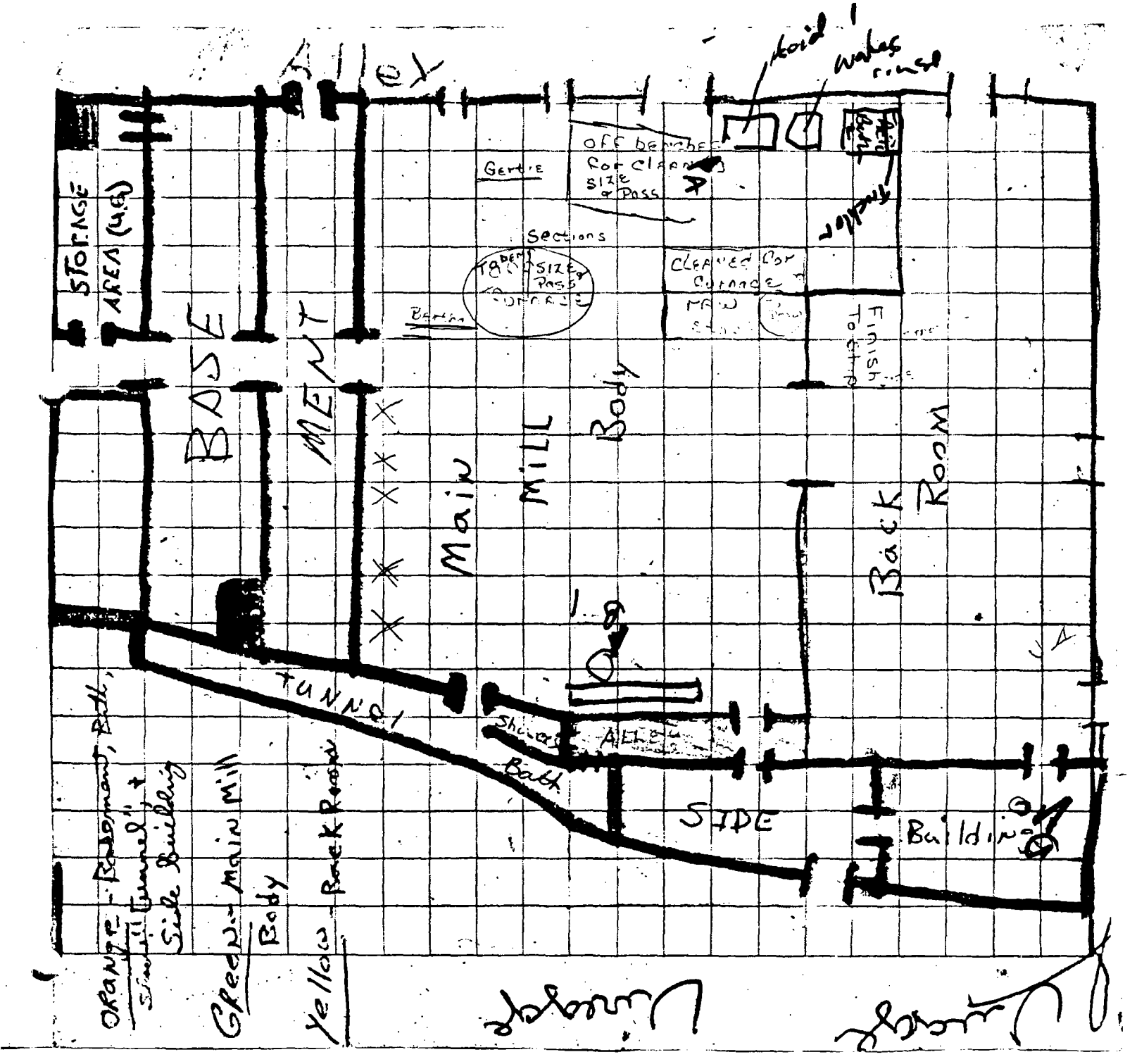
WITHHELD DOCUMENT

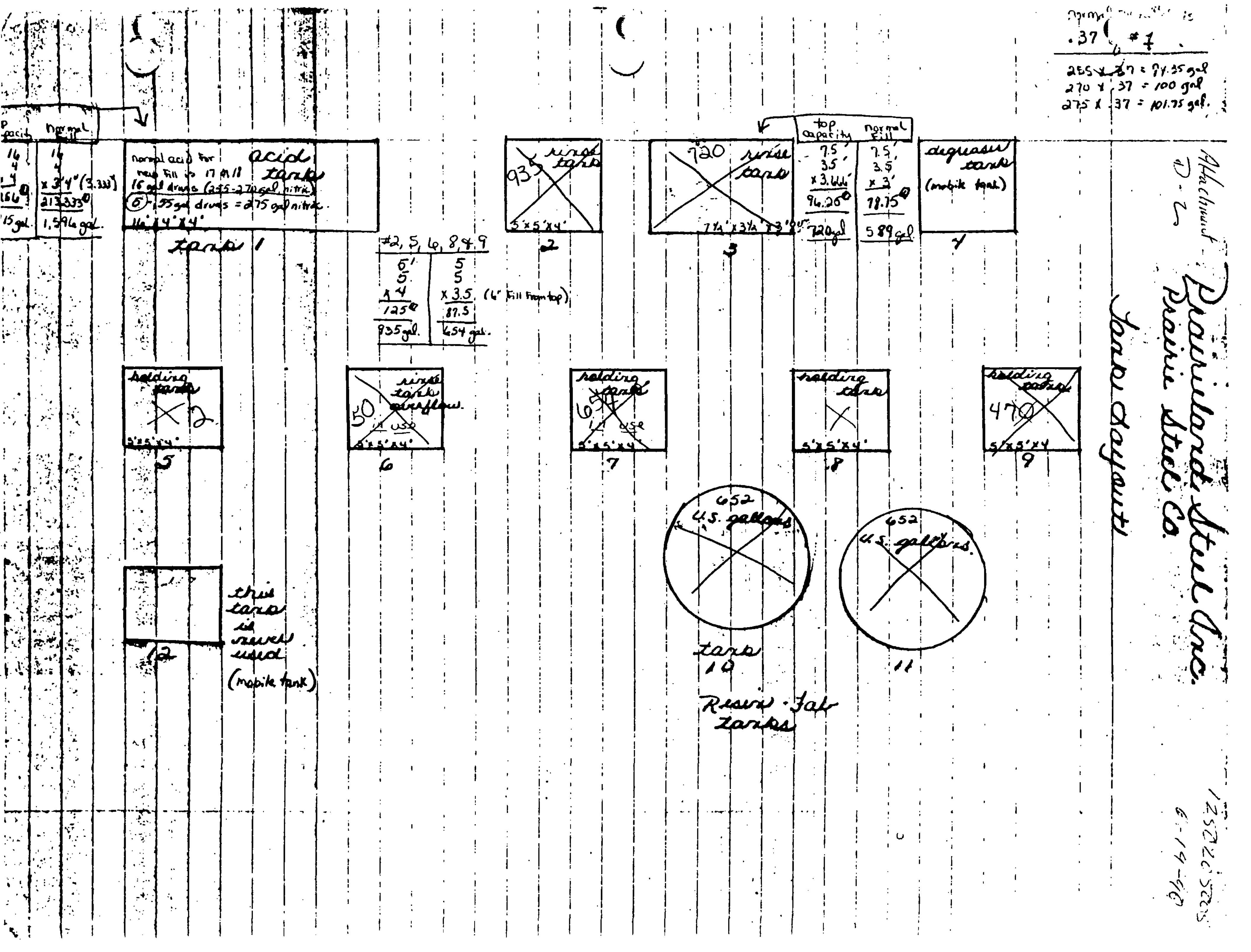
FROM FILE CATEGORY: FOS

DATED: 7-6-90

Attachment D-1

1250205005
6-14-90

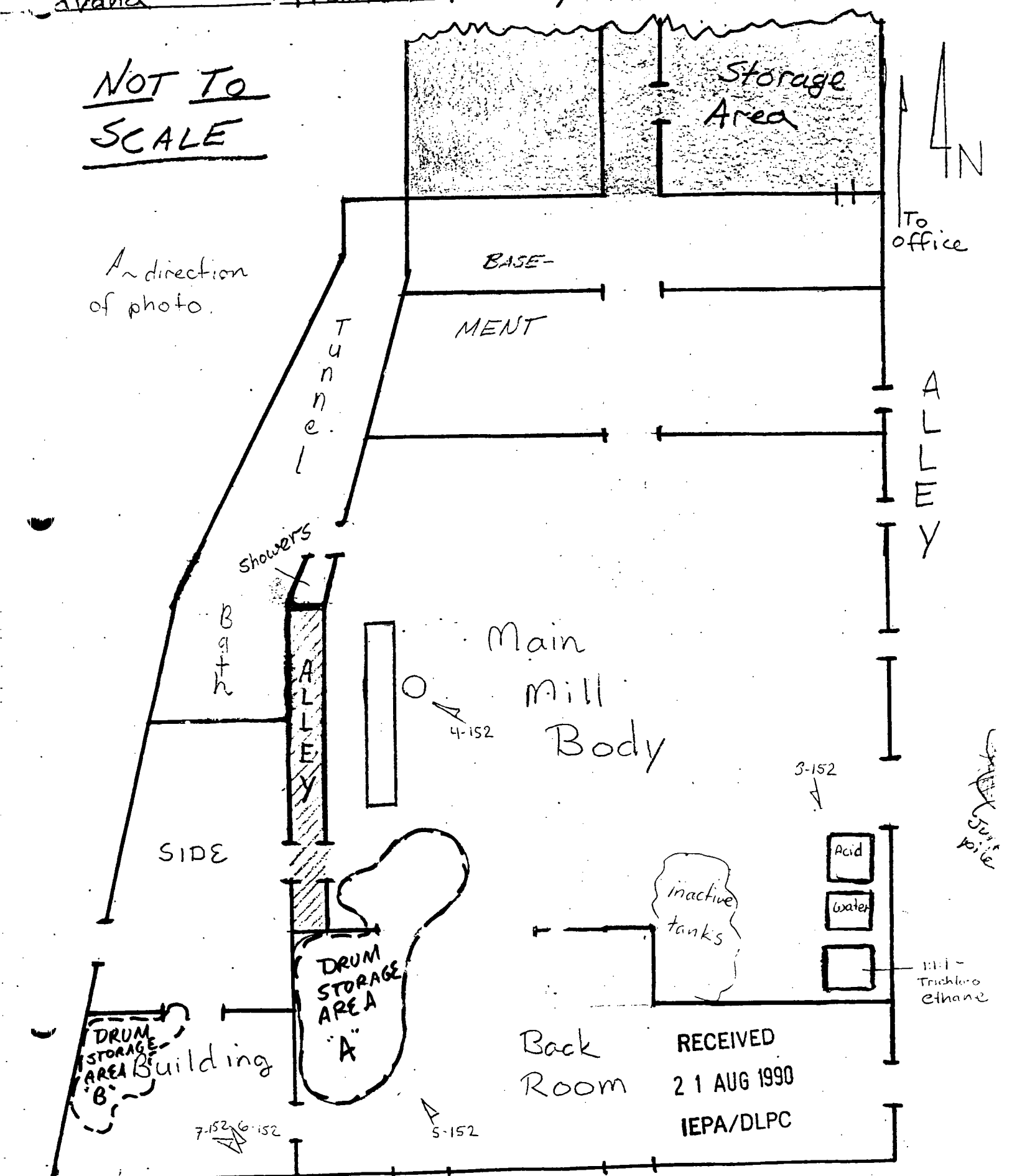




.37 #1
255 x .37 = 94.35 gal
270 x .37 = 100 gal
275 x .37 = 101.75 gal.
top capacity
normal fill
14
4
x 3'4" (3.333)
213.333
1,596 gal.
normal acid for new fill is 17 A18
acid tank
15 gal drums (255-270 gal nitric)
(5) 55 gal drums = 275 gal nitric
tank 1
rinse tank
935
5'x5'x4'
2
720
rinse tank
7¼' x 3½' x 3'
3
top capacity
normal fill
7.5'
3.5'
x 3.666'
96.26
720 gal
7.5'
3.5'
x 3'
78.75
589 gal
degreaser tank
(mobile tank)
4
#2, 5, 6, 8, 9
5'
5
x 4
125
935 gal.
5
5
x 3.5 (6" fill from top)
87.5
654 gal.
holding tank
5'x5'x4'
5
rinse tank overflow
50
5'x5'x4'
6
holding tank
5'x5'x4'
7
holding tank
5'x5'x4'
8
holding tank
470
5'x5'x4'
9
652 U.S. gallons
tank 10
652 U.S. gallons
11
Resin-Fab Tanks
this tank is never used
(mobile tank)
12
Attachment D-2
Prairieland Steel Inc.
Prairie Steel Co.
Tank Layout
12524 5263
6-14-96

MASON - LPC 1250205095 DATE: JUNE, 14 19

Havana / Prairieland Steel, Inc. TIME: 10 AM to 12:30



6-14-90

20918 - R2271 (RUN 04/25/90)

/ - Attachment A

PREQUALIFICATION EVALUATION
CUSTOMER SURVEY

COMPLETE: 04/18/90
CONTROL#: 0056406-1
SAMPLE# : 077458

ACCEPT

safety-kleen

FLUID RECOVERY

NC ATTACHMENT

** FLUID RECOVERY **

CUSTOMER INFORMATION:

PRAIRIE STEEL
550 S. PEAR ST
HAVANA IL 62664

ATTN: DUKE DANNER

BRANCH: 513601 TODD LUCKS COUNTY: MASON
NATURE OF BUSINESS: WIRE REDRAW
FEDERAL EPA ID: ILD005239497 STATE EPA: IL. ID: 1250205005 . ID:
MANIFEST ADDRESS IS BILLING MANIFEST TO

MATERIAL: WASTE GREASE PROCESS: DIP WIRE IN
VOLUME: 110 GALS PER ONE TIME ONLY VOLUME ON HAND: 110
STORAGE CAPACITY: 110 IN DRUMS SHIPPING FREQUENCY: ONCE IN DRUMS
COLOR: BLACK/WHITE LAYERS: ONE PHYSICAL STATE: SEMI VISCOSITY: MEDIUM

MATERIAL COMPOSITION(VOL%):	CODE	MIN	MAX	TYPICAL
GREASE	G	0.0		98.0
SETTLED SOLIDS	SETS	0.0		2.0

RESTRICTED SUBSTANCES: NONE
D.O.T. HAZARDOUS MATERIAL: CUSTOMER REQUEST ASSISTANCE
EPA HAZARDOUS WASTE: CUSTOMER REQUEST ASSISTANCE

P.O. NO: BRANCH: 513601 DATE: 04/02/90
TYPE OF SAMPLE: COMPOSITE NUMBER OF DRUMS SAMPLED: 2 TAKEN BY: SALESREP
CONTACT: DUKE DANNER TITLE: GENERAL MANAGER PHONE: 309-543-2281

CORPORATE REVIEWS:	DISPOSITION	REVIEWER	DATE
TECHNICAL:	ACCEPT	EJE	04/19/90
REGULATORY:	ACCEPT	CAP	04/19/90
OPERATING:	ACCEPT	JWH	04/19/90

HANDLING CODES: S02/T50 PRICING CODE: FC

APPROVED FACILITIES:

	(658) SAFETY-KLEEN CORP	(654) SAFETY-KLEEN CORP
	STATE HWY 146	633 EAST 138TH ST
	NEW CASTLE KY 40050	DOLTON IL 60419
FED EPA#:	KYD053348108	ILD980613913
STATE EPA#:		0310690006
TELEPHONE:	502/845-2453	708/849-4850
IL. AUTH#:		000161

APPROVED 0001035 DRUM OR BULK
DOT-EPA RQ HAZARDOUS WASTE, SOLID, N.O.S.
DESC. DRM-E NA9189 (D001)(ERG #31)

0000999 SPECIAL NOTICE
PROPER SHIPPING DESCRIPTION WAS BASED ON KNOWLEDGE OF SIMILIAR WASTES, AND WAS NOT BASED ON THIS SINGLE ANALYSIS.

COMMENTS: OK FOR GRINDABLE FUEL. FRS CAT IV-C.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

SAFETY-KLEEN CORP.
PREQUALIFICATION EVALUATION
MATERIAL ANALYSIS

COMPLETE: 04/19/
CONTROL#: 0059405-
SAMPLE# : 077458

ACCEPT
NO ATTACHMENT

UID RECOVERY
AIRIE STEEL

** FLUID RECOVERY **

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR : BLACK
NON-VOLATILE RESIDUE: 98.6 WT% DESCRIPTION: SLUDGE
FLAMMABILITY : NO FLASH AT 142 F BY SETAFLASH
FLAMMABILITY : NO FLASH AT 102 F BY SETAFLASH
PH : EXTRACT BY PAPER 6.0
RADIOACTIVITY : NONE DETECTED
COMMENTS: GUM-LIKE

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT:	12800 BTU/LB	ASH UPON COMBUSTION:	1.0 WT%
TOTAL CHLORINE CL:	35.1 WT%	TOTAL BROMINE BR: <	0.1 WT%
TOTAL FLUORINE F : <	0.1 WT%	TOTAL SULFUR S :	0.3 WT%

GENERAL COMPOSITION:

	SPECIFIC GRAVITY	VISCOSITY (CENTIPOISE)	GENERAL COMPOSITION BY: APPEARANCE (VOL%)	TOTAL (WT %)
AQUEOUS PHASE (FREE WATER)			0.0	0.0
ORGANIC PHASE (FEEDSTOCK)			0.0	0.0
BOTTOM SLUDGE (SEMISOLIDS)			0.0	0.0
BOTTOM SOLID (SETTLED SOLIDS)			100.0	100.0
TOTAL		> 50000 CPS	100.0	100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE

COMPOSITION OF:	TOTAL SAMPLE (WT%)	TOTAL SAMPLE (WT%)
WATER CONTENT	0.0	0.0
NON-VOLATILE RESIDUE DESCRIPTION: SLUDGE	98.6	98.6
VOLATILE ORGANICS BY DIFFERENCE	1.4	1.4
TOTAL	100.0	100.0

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: CS2-EXTRACT
DETECTION METHODS : FID

COMPOUND NAME	COMPOSITION OF: CODE	CAS NUMBER	VOLATILE ORGANICS (WT%)	VOLATILE ORGANICS (WT%)	TOTAL SAMPLE (WT%)
TRACES OF VOLATILE ORGANICS DETECTED (<1.0% EACH)	TR	0-27-1	100.0	100.0	1.4
TOTAL			100.0	100.0	1.4

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS	0.0	ALIPHATIC HYDROCARBONS	0.0
AROMATIC HYDROCARBONS	0.0	CHLORINATED SOLVENTS	0.0
ESTERS	0.0	ETHERS	0.0
GLYCOL ETHERS	0.0	INHIBITORS	0.0
KETONES	0.0	NITROGEN COMPOUNDS	0.0

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

ADDITIONAL ANALYTICAL INFORMATION: NO PCBS VARIFIED BY MASS SPEC

LABORATORY REVIEW: R
LEVEL: SEG CODE: RELEASED: 04/19/90
LAB REVIEWERS: GLL GLL ANALYZED: 04/19/90
HIGH VISCOSITY

TRACKING INFORMATION:

	DATE	FACILITY
SURVEY RECEIVED :	04/04/90	SK TECHNICAL CEN
SAMPLE RECEIVED :	04/04/90	
RESAMPLE SHIPPED :		
RESAMPLE RECEIVED:		

NO LAND DISPOSAL RESTRICTION OF WASTE CAN BE IDENTIFIED BASED ON S-K ANALYSIS.

06-14-90

80918 - R2271 (RUN 04/19/90)

PREQUALIFICATION EVALUATION
CUSTOMER SURVEY

COMPLETE: 04/18/90
CONTROL#: 0059411-3
SAMPLE# : 077457

Attachment B

safety-kleen

ACCERT

FLUID RECOVERY

NO ATTACHMENT

** FLUID RECOVERY **

CUSTOMER INFORMATION:

PRAIRIE STEEL
550 S. PEAR
HAVANA IL 62664

ATTN: DUKE DANNER

BRANCH: 513601 TODD LUCKS COUNTY: MASON
NATURE OF BUSINESS: WIRE REDRAW
FEDERAL EPA ID: ILD005239497 STATE EPA: IL. ID: 1250205005 . ID:
MANIFEST ADDRESS IS BILLING MANIFEST TO

MATERIAL: WASTE 1,1,1 PROCESS: VAPOR DEGREASING
VOLUME: 275 GALS PER YEAR VOLUME ON HAND: 275
STORAGE CAPACITY: 275 IN DRUMS SHIPPING FREQUENCY: IN DRUMS
COLOR: GRAYISH LAYERS: ONE PHYSICAL STATE: LIQUID VISCOSITY: LOW

MATERIAL COMPOSITION(VOL%):	CODE	MIN	MAX	TYPICAL
TRICHLOROETHANE, 1,1,1-	111	0.0		98.0
SETTLED SOLIDS	SETS	0.0		2.0

RESTRICTED SUBSTANCES: NONE
D.O.T. HAZARDOUS MATERIAL: CUSTOMER REQUEST ASSISTANCE
F HAZARDOUS WASTE: CUSTOMER REQUEST ASSISTANCE

P.O. NO: BRANCH: 513601 DATE: 04/02/90
TYPE OF SAMPLE: COMPOSITE NUMBER OF DRUMS SAMPLED: 2 TAKEN BY: SALESREP
CONTACT: DUKE DANNER TITLE: GENERAL MANAGER PHONE: 309-543-2281

CORPORATE REVIEWS:	DISPOSITION	REVIEWER	DATE
TECHNICAL:	ACCEPT	CAP	04/17/90
REGULATORY:	ACCEPT	TAL	04/17/90
OPERATING:	ACCEPT	JWH	04/17/90

HANDLING CODES: S02/T63 PRICING CODE: F3

APPROVED FACILITIES:

(654) SAFETY-KLEEN CORP
633 EAST 138TH ST
DOLTON IL 60419
FED EPA#: ILD980613913
STATE EPA#: 0310690006
TELEPHONE: 708/849-4850
IL. AUTH#: 000162

(658) SAFETY-KLEEN CORP
STATE HWY 146
NEW CASTLE KY 40050
KYD053348108
502/845-2453

APPROVED 0000511 DRUM
DOT-EPA WASTE 1,1,1-TRICHLOROETHANE
DESC. ORM-A UN2831 (F001)(ERG #74)

COMMENTS: OK FOR 111 RECOVERY. FRS CAT III.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

EQ818 - R2271 (RUN 04/19/90)

SAFETY-KLEEN CORP.
PREQUALIFICATION EVALUATION
MATERIAL ANALYSIS

PAG
COMPLETE: 04/
CONTROL#: C058
SAMPLE# : C7748

ACCEPT
NO ATTACHMENT

FLUID RECOVERY
PRAIRIE STEEL

** FLUID RECOVERY **

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR	: GREEN
WATER CONTENT	: 4.1 WT%
FLAMMABILITY	: NOT APPLICABLE
FLAMMABILITY	: NOT APPLICABLE
PH	: EXTRACT BY METER 2.4
NEUTRALIZATION	: 0.03 WT% OR 0.3 G/KG ACIDITY AS HCL
RADIOACTIVITY	: NONE DETECTED

GENERAL COMPOSITION:

	SPECIFIC GRAVITY	VISCOSITY (CENTIPOISE)	GENERAL COMPOSITION BY: APPEARANCE (VOL%)	TOTAL (VOL%)
AQUEOUS PHASE (FREE WATER)		< 50 CPS	10.0	10.0
ORGANIC PHASE (FEEDSTOCK)	1.310	< 50 CPS	90.0	90.0
BOTTOM SLUDGE (SEMISOLIDS)			0.0	0.0
BOTTOM SOLID (SETTLED SOLIDS)			0.0	0.0
TOTAL			100.0	100.0

RECOVERY EVALUATION OF ORGANIC PHASE

COMPOSITION OF:	ORGANIC PHASE (VOL%)	TOTAL SAMPLE (VOL%)
BOTTOMS OIL	0.0	0.0
BOTTOMS NON-OIL	5.0	4.5
PHASED DISTILLATE WATER	0.0	0.0
DISTILLATE SOLVENT	95.0	85.5
TOTAL	100.0	90.0

BOTTOMS DESCRIPTION : SOLID
OVERHEAD ENDPOINT TEMP: 184

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: CS2-EXTRACT
DETECTION METHODS : FID

COMPOUND NAME	COMPOSITION OF: CODE	CAS NUMBER	VOLATILE ORGANICS (WT%)	VOLATILE ORGANICS (VOL%)	TOTAL SAMPLE (VOL%)
TRICHLOROETHANE, 1,1,1-	111	71-55-6	99.4	99.2	84.8
TOTAL OTHERS (<1.0% EACH)	TO	0-05-5	0.6	0.8	0.7
TOTAL			100.0	100.0	85.5

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS	0.0	ALIPHATIC HYDROCARBONS	0.0
AROMATIC HYDROCARBONS	0.0	CHLORINATED SOLVENTS	99.4
ESTERS	0.0	ETHERS	0.0
GLYCOL ETHERS	0.0	INHIBITORS	0.0
KETONES	0.0	NITROGEN COMPOUNDS	0.0

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

LABORATORY REVIEW: A
LEVEL: SEG CODE: RELEASED: 04/18/90
LAB REVIEWERS: CR CR ANALYZED: 04/17/90

TRACKING INFORMATION:	DATE	FACILITY
SURVEY RECEIVED :	04/04/90	SK TECHNICAL CEN
SAMPLE RECEIVED :	04/04/90	
RESAMPLE SHIPPED :		
RESAMPLE RECEIVED:		

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED UNDER 40 CFR PART 268.

Attachment C

2/2

WASTE PROFILE SHEET CODE

A. GENERAL INFORMATION

GENERATOR NAME: PRAIRIE STEEL CO.
FACILITY ADDRESS: 550 S. PEAR ST.
MAILING ADDRESS: P.O. BOX 395
CITY/STATE/ZIP: HAVANA, IL. IL 62644
TECHNICAL CONTACT: MISS. DUKE DANNER TITLE: G. MA. PHONE: (309) 543-2281

TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D. ILD005229497
GENERATOR STATE I.D. 125020500 5

B. PHYSICAL CHARACTERISTICS OF WASTE:

NAME OF WASTE: WASTE SOAP
PROCESS GENERATING WASTE: LEFTOVER FROM WIREDRAWING

COLOR	ODOR	PHYSICAL STATE @ 70° F	LAYERS	FREE LIQUIDS	VISCOSITY
☑ VARIES	☐ NONE ☑ MILD	☐ SOLID ☐ SEMI-SOLID ☐ SLUDGE	☐ MULTILAYERED	☐ YES ☑ NO	☐ LOW N/A
☐	☐ STRONG	☐ LIQUID ☑ POWDER	☐ BI-LAYERED		☐ MEDIUM
	DESCRIBE SOAPY	☐	☑ SINGLE PHASED	VOLUME %	☐ HIGH

pH	SPECIFIC GRAVITY	FLASH POINT	
☐ > 2 ☐ 7.1 - 10 ☐ N/A	☐ < .8 ☐ 1.1 - 1.3	☐ < 70°F ☐ > 200°F	BTU/LB
☐ 2 - 4 ☐ 10.1 - 12.5	☐ .8 - 1.0 ☐ 1.3 - 1.5	☐ 70°F - 100°F ☑ NO FLASH	ASH %
☐ 4.1 - 6.9 ☐ > 12.5	☑ 1.0 - 1.1 ☐ > 1.5	☐ 101°F - 140°F ☐ EXACT	CL %
☑ 7 ☐ EXACT	☐ EXACT	☐ 141° - 200°F	

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

SOAP	100 %
	%
	%
	%
	%
	%
	%
	%
	%
	%

D. METALS ☐ TOTAL (PPM) ☑ EPA EXTRACTION PROCEDURE (mg/L)

ARSENIC (As)	< 5	SELENIUM (Se)	< 5
BARIUM (Ba)	< 100	SILVER (Ag)	< 1
CADMIUM (Cd)	< 1	COPPER (Cu)	
CHROMIUM (Cr)	< 5	NICKEL (Ni)	
MERCURY (Hg)	< 0.2	ZINC (Zn)	
LEAD (Pb)	> 5	THALLIUM (Tl)	
CHROMIUM - HEX (Cr + 6)			

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES	< 2	PCB'S	0
SULFIDES	< 2	PHENOLICS	< 2

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☑ YES ☐ NO
PROPER SHIPPING NAME: WASTE HAZARDOUS SOLID
HAZARD CLASS: ORM-E I.D. NO. NA 9189 R.Q.
METHOD OF SHIPMENT: ☐ BULK LIQUID ☐ BULK SOLID ☑ DRUM (TYPE/SIZE) 55GAL-17H
ANTICIPATED VOLUME: 3-5 GALS. C.U.YDS. OTHER:
PER ☐ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☑ YEAR ☐

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☑ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER
OTHER HAZARDOUS CHARACTERISTICS.
☑ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER
US EPA HAZARDOUS WASTE? ☑ YES ☐ NO
US EPA HAZARDOUS CODE(S) D008
STATE HAZARDOUS WASTE? ☑ YES ☐ NO
STATE CODE(S) D008

☐ ADDITIONAL PAGE(S) ATTACHED

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

AUTHORIZED SIGNATURE: Neil Compton TITLE: Consultant DATE: 4/3/90

Attachment A-E

1250205005
C-090

PROG: LPSWM501
LIST: LPSWP501

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
MANIFEST FILE SEARCH

PAGE: 2
TIME: 22:24:29
DATE: 06/06/90

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557954-1A WASTE STREAM NO 812139 WASTE AMT 165 GALLONS SHIP 06/05/84 RECVD 06/05/84 GEN COPY YES HAZ WASTE NO D008

SITE MICRO 84208001263 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 84/272 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 1122571-1A WASTE STREAM NO 812139 WASTE AMT 250 GALLONS SHIP 09/24/84 RECVD 09/24/84 GEN COPY YES HAZ WASTE NO D009

SITE MICRO 84305001019 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 85/016 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	1071	ENVIRITE CORP	0311110001	ENVIRITE CORP

MANIFEST NO 1412517-1A WASTE STREAM NO 000054 WASTE AMT 3,848 GALLONS SHIP 01/19/88 RECVD 01/19/88 GEN COPY YES HAZ WASTE NO D002

SITE MICRO 88041000429 GENERIC NAME: ENTRY 88/049 HIST 89/017 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	1071	ENVIRITE CORP	0311110001	ENVIRITE CORP

MANIFEST NO 1960067-1A WASTE STREAM NO 000054 WASTE AMT 2,505 GALLONS SHIP 01/19/88 RECVD 01/19/88 GEN COPY YES HAZ WASTE NO D002

SITE MICRO 88041000430 GENERIC NAME: ENTRY 88/049 HIST 89/017 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	2327	VAN WATERS & ROGERS INC	1130900007	VAN WATERS & ROGERS INC

MANIFEST NO 4044455-1A WASTE STREAM NO 000080 WASTE AMT 250 GALLONS SHIP 04/27/89 RECVD 04/28/89 GEN COPY YES HAZ WASTE NO F001

SITE MICRO 89137001261 GENERIC NAME: ENTRY 89/276 HIST 90/104 ERRORS

MANIFEST RECORDS 12 TOTAL GALLONS 10,978

PROG: LPSWM501
LIST: LPSWP501

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
MANIFEST FILE SEARCH

PAGE: 1
TIME: 22:34:24
DATE: 06/06/90

SELECTION CRITERIA: GENERATOR:1250205005 HAULER: SITE: WASTE STREAM: BEGIN DATE:01/01/80 END DATE:06/06/90
SELECTION CODE:0 ERROR CODES:

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557945-1A WASTE STREAM NO 812139 WASTE AMT 770 GALLONS SHIP 11/16/81 RECVD 11/16/81 GEN COPY YES HAZ WASTE NO
SITE MICRO 82208000629 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 82/209 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557947-1A WASTE STREAM NO 812139 WASTE AMT 495 GALLONS SHIP 02/23/82 RECVD 02/23/82 GEN COPY YES HAZ WASTE NO
SITE MICRO 82208000630 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 82/209 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557948-1A WASTE STREAM NO 812139 WASTE AMT 715 GALLONS SHIP 06/17/82 RECVD 06/17/82 GEN COPY YES HAZ WASTE NO
SITE MICRO 82208000631 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 82/209 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557950-1A WASTE STREAM NO 812139 WASTE AMT 715 GALLONS SHIP 11/10/82 RECVD 11/10/82 GEN COPY YES HAZ WASTE NO D008
SITE MICRO 82362000226 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 83/014 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557951-1A WASTE STREAM NO 812139 WASTE AMT 495 GALLONS SHIP 03/07/83 RECVD 03/16/83 GEN COPY YES HAZ WASTE NO D008
SITE MICRO 83110000880 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 83/122 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

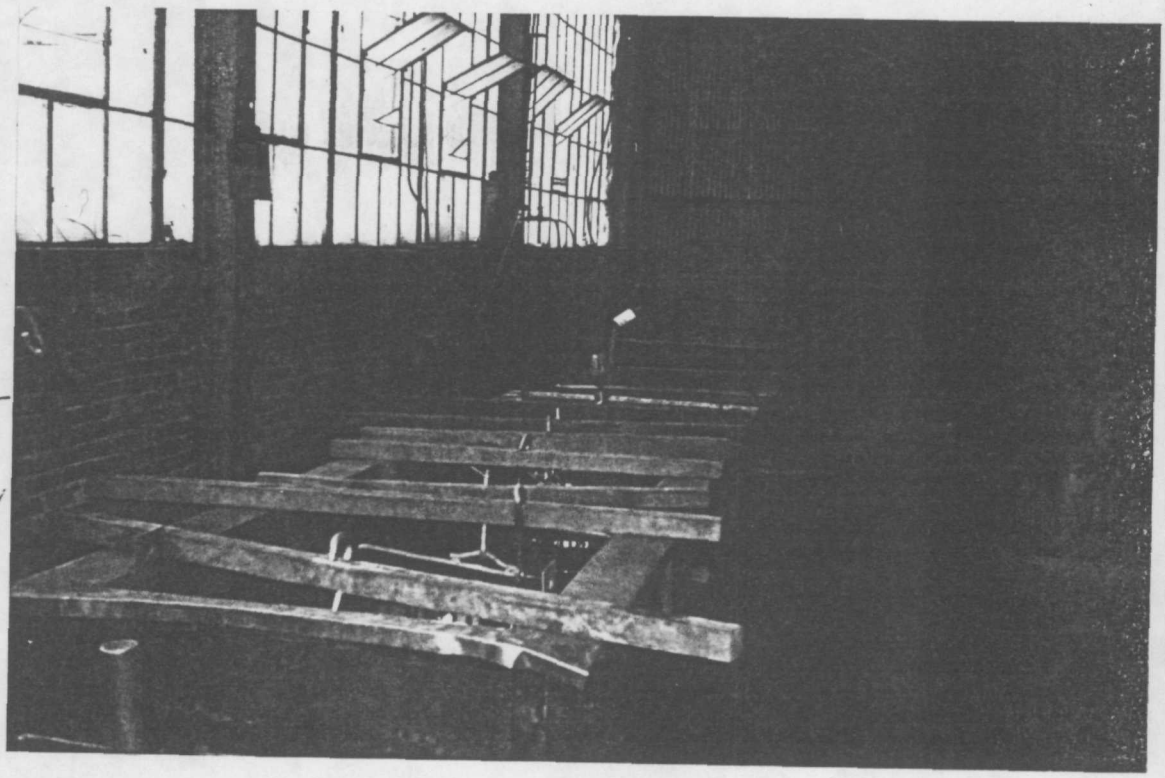
MANIFEST NO 0557952-1A WASTE STREAM NO 812139 WASTE AMT 330 GALLONS SHIP 08/04/83 RECVD 08/11/83 GEN COPY YES HAZ WASTE NO D008
SITE MICRO 83258001691 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 83/291 HIST 99/999 ERRORS

GEN NO.	GENERATOR NAME	HAULER	HAULER NAME	SITE CODE	SITE NAME
1250205005	PRAIRIE STEEL CO INC	0082	PEORIA DISPOSAL CO	1438120003	PEORIA DISPOSAL CO #1

MANIFEST NO 0557953-1A WASTE STREAM NO 812139 WASTE AMT 440 GALLONS SHIP 11/10/83 RECVD 11/17/83 GEN COPY YES HAZ WASTE NO D008
SITE MICRO 83362000919 GENERIC NAME: STEEL CLEANING SOLUTION ENTRY 84/095 HIST 99/999 ERRORS

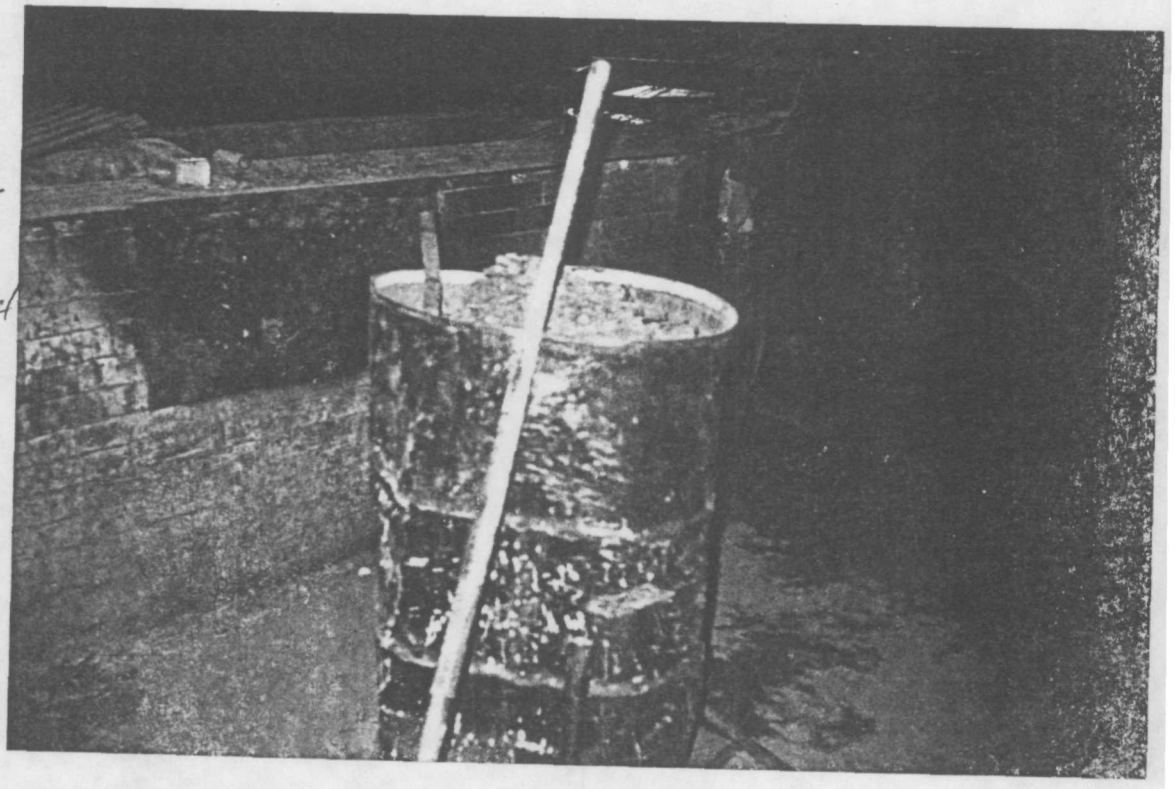
Date: June 14, 1990
Time: 10am. to 12:30 A.M. ~~P.M.~~
Photograph By:
S. Townsend
Location: LPC-1250205005
Mason Co.
Havana 1 Prairieland Stal
Comments: Photograph taken
toward the S-SW

#3 Roll 152



Date: June 14, 1990
Time: 10a.m to 12:30 A.M. ~~P.M.~~
Photograph By:
S. Townsend
Location: LPC-1250205005
Mason Co.
Havana 1 Prairieland Stal
Comments: Photograph taken
toward the W-NW

#4 Roll 152



LPC 24 6/78

Date: June 14, 1990

Time: 10am to 12:30 A.M. ~~P.M.~~

Photograph By:

S. Townsend

Location: LPC- 1250205005

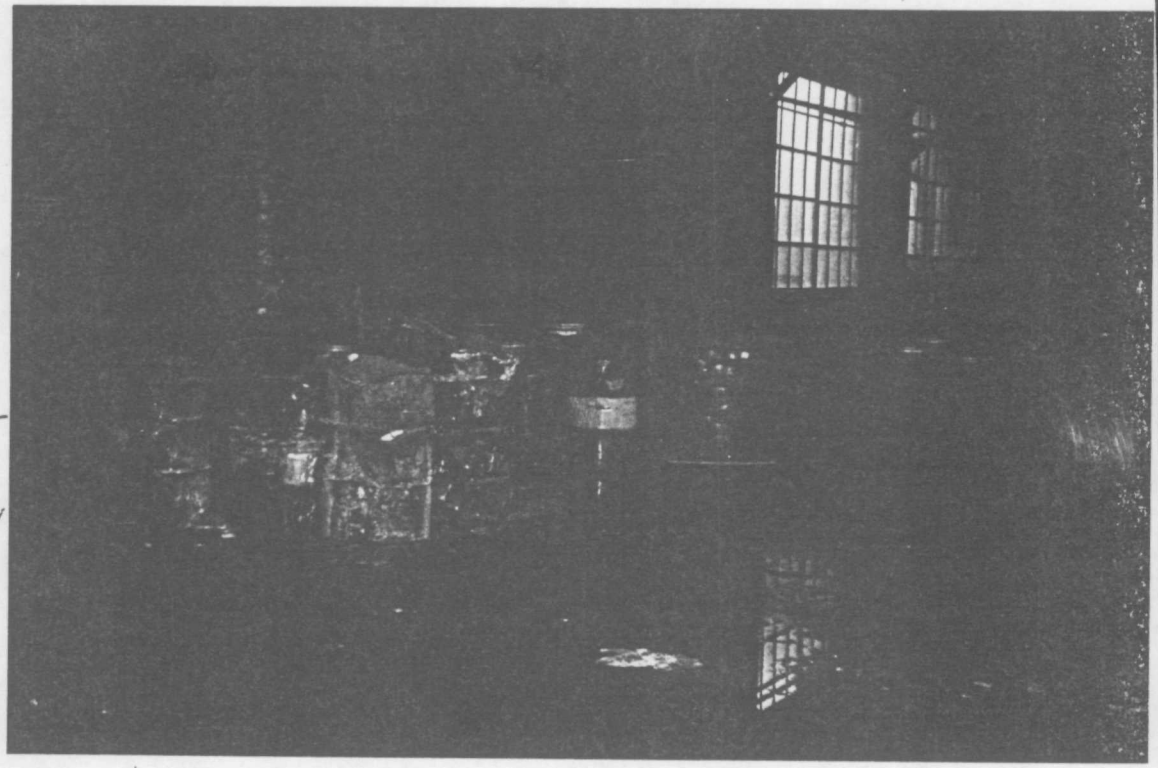
Mason Co.

Havana (Prairieland Steel

Comments: Photograph taken

toward the N.W.

#5 Roll 157



Date: June 14, 1990

Time: 10am to 12:30 A.M. ~~P.M.~~

Photograph By:

S. Townsend

Location: LPC- 1250205005

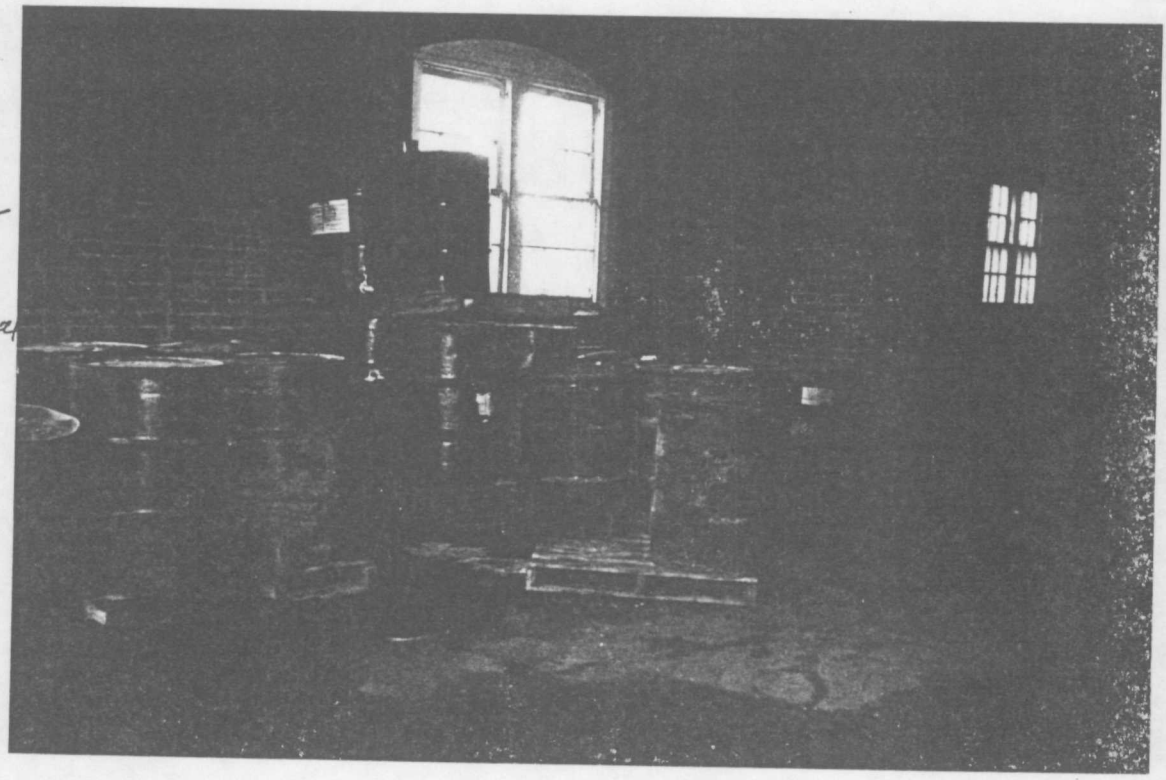
Mason Co.

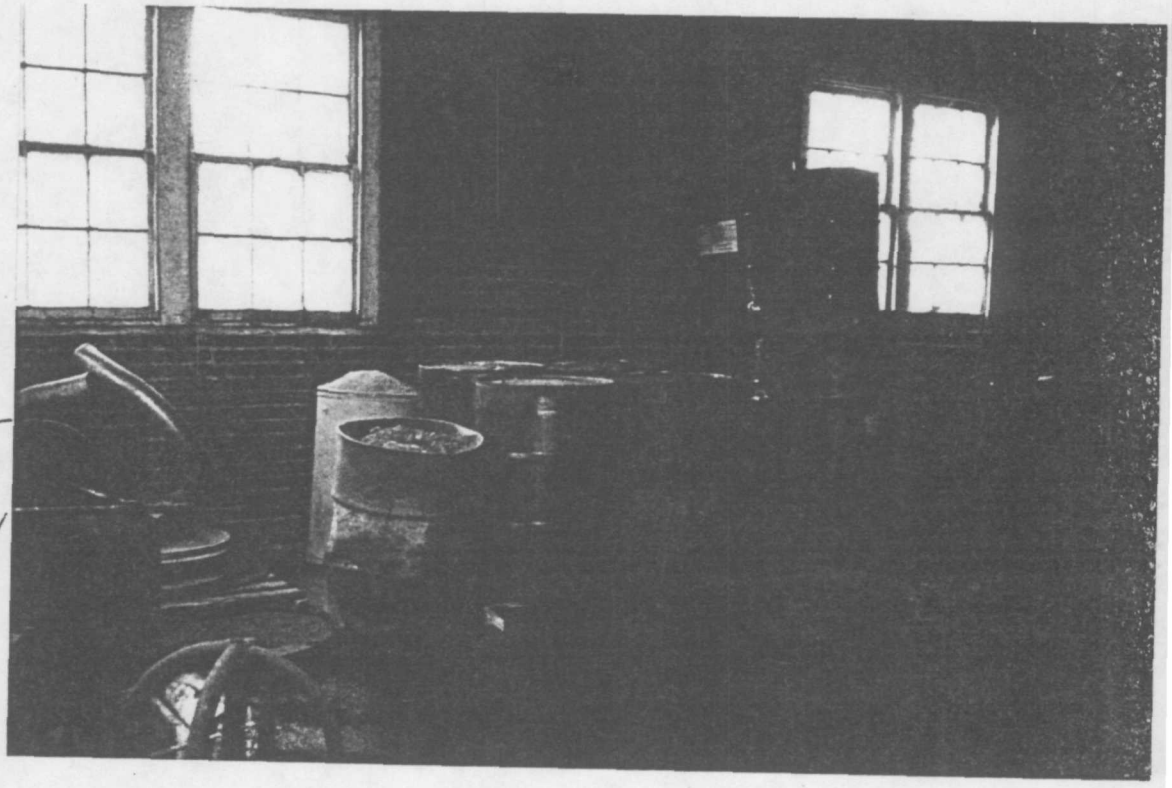
Havana (Prairieland Steel

Comments: Photograph taken

toward the N.W.

#6 Roll 157





Date: June 14, 1990
Time: 10am. to 12:30 A.M. ~~P.M.~~
Photograph By:
S. Townsend
Location: LPC- 1250205005
Mason Co.
Havana 1 Prairieland Stal
Comments: Photograph taken
toward the W- NW

7 Roll 157

Date: June 14, 1990
Time: 10am to 12:30 A.M. ~~P.M.~~
Photograph By:
S. Townsend
Location: LPC- 1250205005
Mason Co.
Havana 1 Prairieland Stal
Comments: Photograph taken
toward the

Roll 157

No Photo

Illinois Environmental Protection Agency
Division of Land Pollution Control

INSPECTION REPORT

USEPA #: IL D 0 0 5 2 3 9 4 9 7 | IEPA #: L 2 5 0 2 0 5 0 0 5

Facility Name: Prairieland Steel | Phone #: (309) 543-2281

Street Address: 550 S Peat | County: Mason

City: Havana | State: IL | Zip: 62664

Region: 4 | Inspection Date: 11/19/90 | From: 8:25 AM To: 10 AM | To: 5:15 PM 3 PM

Weather: Clear, Dry & Mild Temperatures

TYPE OF FACILITY

Notified As: Gen-2 | Regulated As: Gen-5

LDF? N (Yes or No) HPV? N | 90-Day F/U Required?: YES _____ NO ✓

TYPE OF INSPECTION

RCRA: ✓ Sampling: _____ Citizen Complaint: _____ Closed: _____ Other: _____

Record Review: _____ Follow-Up to Inspection of: _____ Withdrawal: _____

NON-REGULATED STATUS

SQG: _____ Claimed Nonhandler: _____ Other (Specify in Narrative): _____

PART A

Notification Date: 8/18/80, from (initial) or (subsequent) Notification.

Initial Part A Date: 10/10/80 | Amended: ___/___/___

Part A Withdrawal requested: ___/___/___ | Approved by (US)(IL) EPA: ___/___/___

PART B PERMIT APPLICATION

Part B Permit called by (US)(IL) EPA on: ___/___/___ | Permit Due: ___/___/___

Part B Permit Submitted: ___/___/___ | Draft Permit Issued: ___/___/___

ENFORCEMENT

N/A

Has firm been referred to: USEPA? _____ IAG? _____ County SA? _____

Date(s) of initial referral: ___/___/___ | ___/___/___ | ___/___/___

USEPA CACO: ___/___/___ CAFO: ___/___/___ ALJ Decision: ___/___/___

Referral to DOJ by USEPA: ___/___/___ Federal Court Order Issued: ___/___/___

PCB Order Issued: ___/___/___ State Court Order Issued: ___/___/___

TSD FACILITY ACTIVITY SUMMARY

Activity by Process Code	On Part A?	Activity Conducted Prior to 1980?	Was Activity Ever Done?	Closed	Being done at Time of Insp.?	Exempt per 35 IAC. Sec.	On Annual Report 89	88	87
S01	Yes	ukn	Yes	No	Yes	N/A	No	NC	NC

RECEIVED
- 6 FEB 1991
IEPA/DLPC

SUMMARY OF APPARENT VIOLATIONS

OWNER	OPERATOR
Non-Responsive	Name: Prairieland Steel Address: (Same as City: owner) State: Zip: Phone #:

PERSON(S) INTERVIEWED	TITLE	PHONE #
Non-Responsive		
Jan Dupuy	Employee	"

INSPECTION PARTICIPANT(S)	AGENCY/TITLE	PHONE #
Allyn Colantinct	IEPA / EPT 1	(217)-786-6892
Jim Conlon	IEPA / LSCT	"
Rich Johnson	IEPA / EPS IV	"
Steve Townsend	IEPA / EPS II	"
William Zierath	IEPA / EPS III	"

PREPARED BY	AGENCY/TITLE	PHONE #
Steven Townsend	IEPA / EPS II	(217) 786-6892

In Attachment A

Area	Class	Section
OTH	1	722.111
OTH	1	722.134(a)
		Includes: (722.134(a)(1))
		(722.134(a)(2))
		(722.134(a)(3))
		(722.134(a)(4))
OTH	1	722.134(c)
OTH	2	722.141(a)
OTH	2	722.141(b)
OTH	2	725.175
CLO	1	725.212(a)
OTH	1	703.152(a)(2)

Area	Class	Section
OTH	1	703.155(a)(1)
OTH	1	703.155(a)(3)
OTH	1	703.155(a)(4)
OTH	2	722.140(c)
OTH	1	725.112(b)
OTH	1	725.113(a)
OTH	1	725.113(b)
OTH	1	725.114(c)
OTH	2	725.115(a)
OTH	2	725.115(b)
OTH	2	725.115(d)
OTH	1	725.116(a)
OTH	1	725.116(b)

Area	Class	Section
OTH	1	725.116(c)
OTH		725.116(d)
OTH	1	725.131
OTH	2	725.132
OTH	1	725.151(a)
OTH	2	725.155
OTH	2	725.173
OTH	2	725.174
FIN	1	725.242(a)
FIN	1	725.243
OTH	1	725.271
OTH	1	725.273(a)
OTH	1	725.273(b)

1250205005 11-14&15-90 ILD005229497

SUMMARY OF APPARENT VIOLATIONS
PAGE 2

Area	Class	Section
OTH	2	725.274
OTH	2	725.291(a)
OTH	2	725.293(a)
OTH	1	725.294
OTH	2	725.295
OTH	1	725.296
LDR	1	728.107
LDR	1	728.150
OTH	1	703.154(a)
OTH	1	703.154(b)

Area	Class	Section

Area	Class	Section

Area	Class	Section

Area	Class	Section

Area	Class	Section

Facility Name: Prairieland Steel

USEPA #: ILD005229492

IEPA #: 1850200005

WASTE DISPOSITION FORM

	Waste Name (Include haz & waste for which no determination has been made)	Generating Process (For waste gen. on site. N/A for TSD)	Date of Last Analysis	USEPA Haz Waste #	* On 8700-12	* On 3510-3	*8 9	*8 8	*8 7	Amount on Site (On Annual Report for:)	Rate of Generation	Last Manifested Shipment	Disposition
A	Waste Acid	Charging Acid Wash Tank	1-88	D002 D008 UKN	1	Yes*	Yes	Yes	Yes	None	1-18-88	disposal at T-Mat via Envirite	
B	Waste Rinse water	Charging Rinse water Tanks	1-88	D002 D008		Yes*	Yes	Yes	Yes	ukn >200 gal	"	"	
C	Waste Lubricant Soap	Wire drawing process	ukn	D008		—	(D) UKN	UKN	UKN	ukn 7500 gal			currently stored on site some is being reclaimed on site.
D	Waste Solvent	Changing Wire Trichloroethane tank	4-90	D002 F001		—	NO	NO	NO	ukn 55-200 gal			currently stored on site
E	Waste Lead Dross	Running lead pot lubricating process	ukn	D008 (und.)		—	NO	→	→	ukn >500 gal			currently stored on site
F	Previous op. wastes	Processes described in C-D above plus other ukn processes	ukn	ukn		—	NO	→	→	ukn 500 gal	ukn	ukn.	currently stored on site.
G	Waste oils	changing lubricating oils in fork lifts on site	ukn	ukn		—	NO	→	→	<55 gal	<55 gal/ year	ukn	ukn
H	Waste cont. Rainwater	Raining onto soiled floor in active mill area of plant.	none	ukn		—	NO	→	→	none	ukn	none	pumped down drain on site.
I	OTHER wastes	various processes (not unknown) (See narrative)	none	ukn		—	NO?	→	→	unk.	ukn.	none	currently stored on site.

* listed as K063 on 3510-3

(D) May be included in future wastes.

* All "NO" responses must be explained in narrative.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY

NARRATIVE INSPECTION REPORT DOCUMENT

Date of inspection: November 14, 1990 Time: 8:25a-5:15p
November 15, 1990 10:00a-3:00p

Site code: 1250205005 County: Mason

Site name: Havana/Prairieland Steel Inspectors: S. Townsend

GENERAL REMARKS

This facility notified the Agency as Prairie Steel, Inc. as a generator of hazardous waste on August 18, 1980. The facility notified as a storage facility via part A of the permit application on October 10, 1980. A complaint investigation regarding this facility was conducted on June 14, 1990 by Jim Miles, DWPC and this author of this Agency. An additional complaint regarding waste handling by this facility was received after the June 14, 1990 inspection. A Pre-Enforcement Conference Letter (PECL) was sent to the facility advising them of a meeting planned to discuss resolution of apparent violations found during the June 14, 1990 complaint investigation. The facility did not respond to the letter or attend the meeting. The facility appeared on the inspection schedule for this author for fiscal year 1991. A complete inspection of the site was planned. A sampling team was organized.

On November 14, 1990 the above referenced facility was inspected by Allyn Colantino, Jim Conlon, Rich Johnson, William Zierath and Steve Townsend (this author), DLPC of this Agency. The sampling team described above documented site conditions including the collection of waste samples on November 14, 1990. I returned to review records on November 15, 1990.

On November 14, 1990 the sample team arrived at the facility at about 8:25 a.m.. Mr. Johnson and I went to the office building. There was no answer at the door. Nobody appeared to be in the building. We walked through the gate southward to the active part of the plant. We entered the plant through the first open door we came to at the north end of the active portion of the plant. We introduced ourselves to Mr. Jan Dupuy, an employee of Prairieland Steel, Inc.. Mr. Jan Dupuy said that his father had left to get some breakfast. He said his father would be back soon. Mr. John

Dupuy arrived at the facility at about 8:45 a.m.. Mr. Johnson and I met Mr. John Dupuy at the office. We informed Mr. Dupuy why we were there and stated that we wished to inspect the entire site. Mr. John Dupuy accompanied us on the site tour and answered questions concerning the processes and equipment seen on site. Mr. John Dupuy did not stay with the sampling team during the entire sampling process. He was asked to stand out of the way for safety reasons during the collection of one sample because he was not wearing a respirator and he was smoking in the area.

According to Mr. John Dupuy the name of the company has been Prairieland Steel, Inc. since he purchased the company in 1985. The company was originally Prairie Steel. The original name is still used for business purposes. The company was listed as Prairie Steel in the 1988 Illinois Manufactures Directory (See Attachment L).

The following items are numbered to correspond to the questions on the attached RCRA Inspection Narrative cover page:

1. Products, Processes and Services:

Prairieland Steel (PLS) redraws ferrous wire. The following processes and services are done on site:

A. Re-Die Process (wire drawing).

-- Raw material stock 304 and 316 stainless steel are drawn through dies to give the wire the desired shape and thickness. Electric motors are used to pull the wire through the redraw device. Soap flakes are used as a lubricant in this process. Some of the drawing through dies has been replaced by drawing through a Turks-Head device. No soap flake lubrication is needed for this type of drawing according Mr. John Dupuy. It takes multiple passes to reach the desired shape and thickness required in the finished wire (See photo 11, roll 164).

B. Wire Cleaning.

-- Wire is cleaned in a 3:1 dilute mixture of Nitric Acid. The wire is cleaned in a dip tank system. The system includes one 1500 - 2000 gallon acid tank and one 1000 gallon tank. Several other empty tanks and a tank containing overflow were also located in this area. The old Prairie Steel (OPS) operation (the previous owner/operator) cleaned wire between each pass through the drawing process. The OPS also cleaned the wire in 1:1:1 Trichloroethane before the finish pass. According to Mr. John Dupuy PLS has eliminated the 1:1:1 Trichloroethane cleaner. PLS is using a caustic "quick clean" for every pass before the acid bath. PLS passes through the Turks-Heads do not require pre-cleaning

or lubrication according to Mr. John Dupuy. This has eliminated much of the wire cleaning required by the facility. A steam cleaner is also used in place of the old method of putting the wire through a cold water rinse (See photos 0 through 9, roll 164).

C. Annealing.

-- Wire is heated in an ammonia atmosphere in an electric furnace to soften the steel. This enables the wire to be more easily reworked. This is currently done only before the finish or final pass. OPS bought pre-lead-coated wire and coated the wire between each of the 4 to 6 passes according to Mr. John Dupuy.

D. Cooling.

-- Wire is run through a non-contact cooling system. This enables the wire to better use the flux tank and more easily adhere to the lead from the lead pot.

E. Flux Tank.

-- Wire is run through a flux tank containing Ammonium Chloride and water. This process enables the lead from the lead pot process to better adhere to the wire.

F. Lead Pot Process.

-- Drops of lead are put on the wire to act as a lubricant. Wire is wound by being pulled by a spool during this process. This is currently done only before the finish or final pass. OPS bought pre-lead-coated wire and coated the wire between each of the 4 to 6 passes according to Mr. John Dupuy. He also said that they required more passes because they used only one size stock wire to make even the smaller sized finished wire (See photos 1 roll 165, 6 and 7, roll 167).

G. Maintenance.

-- Hydraulic fluids in fork lift trucks are changed on site. Other small equipment and site repair jobs are done by site personnel. Major and electrical repairs are done by outside help from specialized contractors such as Griffin Electric for electrical work.

-- Degreasing of parts with 1:1:1-Trichloroethane solvent was done on site. According to Mr. John Dupuy the solvent was filtered and reused on site when it became to soiled for degreasing. No spent filters were found on site. According to Mr. Dupuy the use of this solvent has been discontinued (See 3, 7 and 10, roll 164).

H. Waste Treatment -- According to Mr. John Dupuy waste lead contaminated soap left on site from OPS is run through a vibrating screen to separate spent soap clumps into usable and unusable materials. Mr. John Dupuy said that he can reclaim about one barrel of lubricant soap per three barrels of waste spent soap. The soap which is currently being reprocessed was generated by the previous owner/operator prior to Mr. Dupuy's purchase of the site in 1985 and by current operations (See photos 4 through 6, roll 165).

2 and 3. Waste Accumulation / Storage and Waste Disposition:

A. Waste Acid (D002, D008 - Undetermined) -- This waste is generated when the Nitric Acid dip tanks are changed. According to Mr. John Dupuy the tank is changed about once a year when the acid becomes weak. He also said the waste is hauled off site for treatment. The last time this was done was January 19, 1988 according to a manifest search. The waste was sent to Envirite Corp in two shipments. One contained 3,848 gallons and the other contained 2,505 gallons (See photos 3 and 4 roll 164).

B. Waste Rinse Water (D002, D008) -- This waste is generated when the post-Nitric Acid dip water rinse tanks are changed. The rinse tank adjacent to the acid tank was overflowing and running down the drain located between the acid tank and the rinse tank. According to Mr. Dupuy the tank is changed about once a year when the acid becomes weak. This waste was last sent off site as part of the shipment described above (See photos 2, through 6, 8 and 9 roll 164 and 3 roll 167).

C. Waste Lubricant Soap (D008) -- This waste is generated by the wire drawing/diing process as spent contaminated lubricant. The soap becomes contaminated with lead. A waste analysis done by Fed. Env. Svcs. for this waste indicates the material is hazardous due to lead toxicity. This waste is accumulated in small plastic containers near the points of generation. This waste is run through a vibrating screen device which reclaims about 1/3 of the material for reuse. Full drums of the non-reclaimable waste material are placed in the back room of the facility. Full drums of unreclaimed soap from both OPS and the current PLS are also stored here. This waste has been stored on site. No final decision on a disposition for this waste had been made at the time of the inspection (See photos 11 roll 164, 4, through 6, 8 and 11 roll 165, 0 and 1 roll 166, 5, 9 and 10 roll 167).

D. Waste Solvent (F001) -- This waste was generated by changing the 1:1:1-Trichloroethane solvent in the small parts washer once used on site. The solvent in the parts washer was filtered and reused according to Mr. Dupuy. The manifest search done prior to the inspection indicates a waste bearing the same hazardous waste number was shipped

off site on April 27, 1989 (See photos 3 and 7 roll 164 and 1 roll 167).

E. Lead Dross (D008 - Undetermined) -- Lead dross is generated by the lead pot process. The dross is accumulated in 55 gallon drums. Full drums are placed in area A (See photos 9 and 10 roll 165 and 8 roll 167).

F. Waste Materials from Previous Operator (D008, F001 and Undetermined) -- This waste was generated by the previous operator. This waste includes wastes such as those described in waste streams C-E, a waste grease type lubricant and other unknown wastes. According to Mr. John Dupuy this waste was left there by the previous owner/operator prior to the time he took over. Mr. Dupuy said he bought the facility as a turn key operation and began running the place in 1985 (See photos 7 through 10 roll 165, 0 through 10 roll 166, 2, 6 through 11 roll 167 and 0 through 4 Roll 168).

G. Waste Oils (Non-Hazardous) -- Waste oils are accumulated in 55 gallon drums near area A.

H. Waste Contaminated Rainwater -- According to Mr. John Dupuy the process area roof leaks badly when it rains. An electric sump is set up in the plant to remove this liquid. A pushbroom is used to help move the water which accumulates on the floor to the low area where it is collected by the pump. The floor in this area is near the lead pot and is visibly dirty. The waste contaminated water is pumped into a drain. Mr. John Dupuy did not know where the drain lead. There is also a well located on site in the mill area (See photos 2 and 3 roll 165).

I. Other Wastes (Undetermined) -- These wastes include waste sand like material found in a room in the side building/tunnel area, waste liquid in tanks 10 and 11, waste soapy material from waste lead contaminated soap treatment and the waste discharge to the drain located near the acid wash and rinse tanks (See photos 5 and 10 roll 164, 4 through 6 roll 165, 5 roll 166, 4 and 5 roll 167).

4. Unusual Events or Occurrences: -- This facility was purchased on October 25, 1985 by John Dupuy. The previous operator, Prairie Steel, Co. was run by the same people who ran Bixby-Zimmer Engineering Co. in Galesburg, IL. Mr. Dupuy is a former Bixby-Zimmer Employee. David E. Vaughn, Former President of Prairie Steel was also a vice president at Bixby-Zimmer. Mr. Vaughn signed the "Part A" permit application submitted by Prairie Steel Co. in 1980. This facility also has a documented history of regular waste shipments off site using uniform manifests until September 24, 1984, prior to the change in ownership. According to Mr. John Dupuy much of the waste which was stored on site was just left by the previous operator. Mr. John Dupuy stated

that he was never notified what his regulatory responsibilities were. Mr. John Dupuy also stated that he was never notified what the unknown wastes were (See Comment "B" below).

5. Exemptions: -- This facility treats hazardous waste contaminated soap lubricant generated by both OPS and PLS on site. The treatment process physically separates soap which can be reused as a substitute for raw material soap from larger pieces which can't be reused. The process involves dumping the spent soap into a vibrating screen. The usable soap falls into a drum below the screen. The unusable portion moves along the screen to an adjacent drum where it is accumulated. The treatment process itself would be exempt from regulation as a treatment facility because the waste is being reclaimed (See photos 4 through 6, roll 165 and 721.106 of 35 IAC).

6. Regulated Status:

This facility submitted a Notification of Hazardous Waste Activity (form 8700-12) on August 18, 1980 and a Part A - Storage Facility Permit application (form 3510-3) on October 10, 1980. The most current USEPA printout indicates that the facility is exempt from regulation due to small quantity generator status (generation of less than 100 kg {220 lbs} of hazardous waste in a calendar month. This facility generates waste lead-contaminated lubricant, lead dross, waste oils, and acid wastes. This facility also generated waste cleaning solvent. The facility may soon generate a caustic waste from the caustic cleaner which has replaced the solvent parts washing process. During times of Acid waste generation more than 1000 kg (2200 lb) of hazardous waste are generated in a calendar month. This facility also stored lead contaminated waste lubricants, lead dross and grease on site for well over 90 days in accumulation area A. Some of these wastes may not be considered hazardous wastes if they are being accumulated prior to reclamation, provided they are reclaimed or sent off site for reclamation before January 1,1991. This facility is apparently regulated as a large generator (more than 1000 kg {2200 lbs.}) of hazardous waste. This facility is also apparently regulated as a storage facility due to the wastes which were accumulated over 90 days in area B and possibly areas A and C. Several containers with unknown wastes were also found on site. If any of these wastes are determined to be hazardous this facility will have generated and stored more than what is accounted for above.

7. Attachments:

The following attachments were received by this author from Mr. John Dupuy during the inspection:

A. Hazard Communication Training Program -- This attachment is a copy of the OSHA type training for this facility. the training plan does not address waste management or emergency procedures required by RCRA. This attachment consists of 4 pages of information.

B. 4-23-87 Letter to USEPA -- This attachment is a copy of a letter from Prairieland Steel to USEPA regarding waste disposal by PLS. This attachment consists of 2 pages of information.

C. Letter from USEPA -- This attachment is a copy of a letter from USEPA to Prairieland Steel regarding the 4-20-88 Air Pollution inspection by the Federal Agency. This attachment consists of 1 page of information (See Comments Below).

D. 12-27-89 Letter to USEPA -- This attachment is a copy of a letter from Prairieland Steel to USEPA regarding the company's status as a Potential Responsible Party for cleanup at N.L. Ind. / Taracorp - Granite City. The letter states that OPS not PLS disposed of wastes at this site. This attachment consists of 1 page of information.

E. Site Map -- This attachment is a copy of a drawing of the plant. This attachment consists of 1 page of information.

F. Press Release -- This attachment is a copy of a draft press release regarding the purchase of Prairie Steel (OPS) by Mr Dupuy. This attachment consists of 1 page of information.

The following attachments were generated by the Agency as a result of this inspection:

G. Sample Log Sheets -- This attachment is a copy of the information sheets filled out by this author describing each sample location. This attachment consists of 15 pages of information.

H. Chicago Laboratory Sample Packet -- This attachment is a copy of the chain of custody and sample request sheets sent to the Agency's Chicago Laboratory with the samples collected for TCLP metals and other analysis. The samples were delivered to the Agency's Springfield Laboratory on November 15, 1990 by Jim Conlon of this Agency. The Springfield Laboratory ships samples to Chicago and maintains the custody chain per Agency procedure. This attachment consists of 14 pages of information.

I. Springfield Laboratory Sample Packet -- This attachment is a copy of the chain of custody and sample request sheets sent to the Agency's Springfield Laboratory with the samples collected for TCLP organic constituent and other

analysis. The samples were delivered to the Agency's Springfield Laboratory on November 15, 1990 by Jim Conlon of this Agency. This attachment consists of 5 pages of information.

J. Receipt for Samples -- This attachment is a copy of the receipt given to Mr. John Dupuy during the inspection. Mr. John Dupuy did not wish to split samples as indicated by the receipt. No duplicate sample set was collected. This attachment consists of 2 pages of information.

K. Site Safety Plan -- This attachment is a copy of the safety plan developed for sampling work at Prairieland Steel, Inc.

L. Illinois Manufacturers Directory Listings -- This attachment is a copy of pages from the 1980 and 1988 Illinois Manufactures Directory showing the listing for Bixby Zimmer and Prairie Steel Co (See comments below).

Other Attachments:

M. USEPA Water Pollution Inspection Narrative Memo -- This attachment is a copy of the memo from Thomas Bloom, USEPA regarding the April 20, 1988 inspection. This attachment was given to this author during the November 15, 1990 records inspection. It is similar to attachments A through F in this regard. It was inadvertently not lettered in sequence. This attachment consists of 2 pages of information.

8. Apparent Violations:

The following apparent violations were cited as a result of the inspection. Violation numbers correspond to the section of 35 ILL Adm. Code where the regulation is found:

703.152 (a) (2) -- Amended Part A Application -- This facility did not resubmit a Part A of the RCRA permit application as necessary to comply with the provisions of 703.155 for changes during interim status described below.

703.154 (a) -- Prohibitions During Interim Status -- This facility did stored wastes (D008 & F001) not listed on Part A of their permit application.

703.154 (b) -- Prohibitions During Interim Status -- This facility did stored wastes in tanks.Tank storage is not listed on Part A of their permit application.

703.155 (a) (1) -- Amended Part A Application -- This facility did not resubmit a Part A of the RCRA permit application to address the storage of wastes not previously listed on Part A of their permit application.

703.155 (a) (3) -- Amended Part A Application -- This facility did not resubmit a Part A of the RCRA permit application to address the storage of wastes in tanks and specific locations for container storage areas. These areas were not previously listed on Part A of the facility's permit application.

703.155 (a) (4) -- Amended Part A Application -- This facility did not resubmit a Part A of the RCRA permit application to address the change in ownership or address compliance with the financial assurance requirements.

722.111 -- Hazardous Waste Determination -- Hazardous Waste Determination -- The following waste or unknown materials had inadequate or no hazardous waste determination made on them:

A. Waste in Containers Left by Previous Operator -- Open top drums containing what appeared to be lead contaminated wastes similar to what is currently generated were found in the back room in a drum storage area (Area B). Mr. John Dupuy said that these drums were placed in the area by the previous owner during the June 14, 1990 complaint inspection. A large portable container believed to contain waste solvent was found east of the drums in area A. No determination for these wastes was available on site (See photos 7 and 11 roll 165, 0 through 4, 6 through 8 and 10 roll 166 10 and 121 roll 167, 0 through 4 roll 168 and 11-14-90 site 1250205005 video).

B. Lead Dross -- Drums containing some lead dross were found in the drum storage area (Area A). Final disposition for this material had not been made at the time of the inspection. This material would be considered a hazardous waste due to T.C.L.P. Toxicity if it is determined to be a solid waste. If this material is reclaimed or reprocessed into a usable material it may be considered a by-product and not a waste. The material is apparently not reusable without reprocessing. If 75% of it is not reclaimed by January 1, 1991 it will definitely be considered a solid waste and thus a hazardous waste (See photos 9 through 11 roll 165 and 11-14-90 site 1250205005 video).

C. Lead Contaminated Soap -- Drums containing some lead soap were found in the drum storage area (Area A). Final disposition for this material had not been made at the time of the inspection. This material would be considered a hazardous waste due to T.C.L.P. Toxicity if it is determined to be a solid waste. If this material is reclaimed or reprocessed into a usable material it may be considered a spent material being accumulated prior to reclamation and not a regulated

waste. The material is apparently not reusable without reprocessing. If 75% of it is not reclaimed by January 1, 1991 it will definitely be considered a hazardous waste (See photos 11 roll 164, 4 through 6, 8, 10 and 11 roll 165 and 11-14-90 site 1250205005 video).

D. Waste Solid Materials on Ground -- No documentation of the types or amounts of materials which were spilled on the ground in the plant and in the waste accumulation and storage areas on site was found (See photos 11 roll 164, 3, 6 and 10 roll 165, 1, 5 and 9 roll 166, 3 roll 168 and 11-14-90 site 1250205005 video).

E. Waste Liquid Materials on Ground -- No documentation of the types or amounts of materials which were spilled on the ground to in the process areas of the plant and waste accumulation and storage areas on site was found. These wastes include waste overflow from the acid wash area rinse tank, contaminated rainwater from the floor in the lead pot area and other unknown materials in the waste storage areas (See photos 5 roll 164, 2 roll 165, 8 roll 166, 3 roll 167 and 11-14-90 site 1250205005 video).

F. Wastes in Tanks -- No documentation of the types or amounts of waste materials which were accumulated in the tanks in the acid wash process was found on site. These wastes include waste unknowns in the elevated tanks west of the in-ground tanks (See photos 3 and 5 through 10 roll 164, 7 roll 165, 2 through 4, 6 and 7 roll 167 and 11-14-90 site 1250205005 video).

722.134 -- Accumulation Time -- Containers of hazardous waste were left on site since before Mr. John Dupuy purchased the plant in 1985. These containers were still on site in area B. Containers of similar spent materials generated since Mr. Dupuy took over operations were also found on site in area A. Mr. John Dupuy stated that these spent materials were generated this year during the June 14, 1990 complaint inspection. The materials were still on site. These spent materials included lead contaminated soap and lead dross. Mr. John Dupuy stated that he was reusing the lead contaminated soap currently being generated and that which was generated by OPS by putting it through a screening device on site to remove large chunks. He said he could reclaim about 1/3 of a drum from each drum of spent lubricant which has been generated. He said this would also be done with waste that PLS put into area A. The lead dross may be reclaimed off site and thus considered a by product and not a waste. If 75% of these materials in area A are made into usable products before the beginning of the next calendar year (1991), they will have been exempted from the 90 day accumulation time limit for hazardous wastes due to

acceptable accumulation of spent materials prior to reclamation. If these materials are not made into usable products by January 1, 1991, they will also be considered wastes. Storage area also contained waste liquids. These were believed to be spent solvents based on Hnu readings, statements made by Mr. John Dupuy and a telephone conversation with Mr. Steve Conway of Safety Kleen. According to Mr. Conway, Safety Kleen sampled a solvent waste with a low pH in this area in the spring of 1990. Also, it is not known how long the waste accumulated in the tanks in the acid wash area has been in these tanks. This facility filed a protective Part A permit application. The application listed only container storage. It did not list the wastes stored by this facility. It did not list any specific areas where storage would occur (See 721.106 -- Requirements for Recyclable Materials and photos 3 and 5 through 10 roll 164, 7 through 11 roll 165, 0 through 4, 6 through 8 and 10 roll 166, 2 through 4, 6, 7, 10 and 11 roll 167, 0 through 4 roll 168 and 11-14-90 site 1250205005 video)

722.134 (a) (1) -- Accumulation Time / Management of Containers -- Containers of hazardous waste lead contaminated soap and dross as well as unknown wastes which were being accumulated and stored on site were not managed in compliance with 35 Ill. Adm. Code 725, Subpart I as described in the apparent violations of 725.271, 725.273, and 725.274 listed below.

722.134 (a) (1) -- Accumulation Time / Management of Tanks -- Tanks determined to contain hazardous waste lead contaminated rinsewater were used to accumulate or store such wastes. The waste accumulated in these tanks was last shipped off site as D008 toxic waste. The tanks were not managed in compliance with 35 Ill. Adm. Code 725, Subpart J as described in the apparent violations of 725.291 and 725.293 listed below.

722.134 (a) (2) and (3) -- Accumulation Time / Marking of Containers -- Containers of hazardous waste lead contaminated soap and dross which were being accumulated did not have accumulation start dates or the words "Hazardous Waste" marked on them (See photos 4 through 11 roll 165, 0 through 4, 6 through 8 and 10 roll 166, 1, 2, 5 and 8 through 11 roll 167, 0 through 4 roll 168 and 11-14-90 site 1250205005 video).

722.134 (a) (4) -- Accumulation Time / Training, Preparedness and Prevention and Contingency Plan and Emergency Procedures -- Subpart B, Section 725.116 (Personnel Training), Subpart C, Sections 725.131 and 725.137 (Preparedness and Prevention) and Subpart D, Sections 725.151 and 725.155 (Contingency Plan and Emergency Procedures) were not complied with as described below.

722.134 (c) (1) -- Accumulation Time / Satellite Accumulation -- (A). Containers of hazardous waste lead contaminated soap which were being accumulated at or near the point of generation were left uncovered (See photos 11 roll 164, 4 roll 165 and 11-14-90 site 1250205005 video).

-- (B). Containers of hazardous waste lead contaminated soap which were being accumulated near the point of generation did not have the words "Hazardous Waste" or other words that identify the contents marked on them (See photos 11 roll 164, 4 roll 165 and 11-14-90 site 1250205005 video).

722.140 (c) -- Records -- No copies of waste analysis done by the previous operator for wastes left by the previous operation was maintained on site.

722.141 (a) -- Generator Annual Report / Wastes Shipped Off Site -- No annual report for F001 waste shipped off site in 1989 was submitted by this facility. The annual reports which were submitted for 1988 and 1989 incorrectly described the facility as a small quantity generator. Information listed in these reports confirms that this description is incorrect.

722.141 (b) -- Generator Annual Report / On Site Storage -- No annual report for wastes stored on site for 1987 through 1989 was submitted by this facility. The annual reports which were submitted for 1988 and 1989 incorrectly described the facility as a small quantity generator. Information listed in these reports confirms that this description is incorrect.

725.112 (b) -- Required Notices -- According to Mr. John Dupuy much of the waste which was stored on site was left by the previous operator. Mr. John Dupuy stated that he was not notified in writing what his regulatory responsibilities were by the previous operator (See Comment "B" below).

725.113 (a) -- General Waste Analysis -- Not all wastes have had analytical determinations made on them. Mr. John Dupuy was not sure what some of the wastes being stored on site were. According to Mr. John Dupuy much of the waste which was stored on site was left by the previous operator.

725.113 (b) -- Waste Analysis Plan -- No waste analysis plan has been developed for this facility.

725.114 (c) -- Security -- The signs posted at the facility did state that unauthorized personnel should keep out. The signs did not indicate or say "Danger". Mr. John Dupuy said that these signs would be corrected.

725.115 (a), (b) and (d) -- General Inspection Requirements -- According to Mr. John Dupuy there are no schedule for inspections of, or records for inspections of the waste storage areas. Mr. John Dupuy indicated that he had never been in some of the areas where we discovered wastes. Several waste drums were in poor condition. He also said that there were no regular inspections conducted. Most waste drums were being stored open.

725.116 (a) -- Personnel Training -- Although some personnel training had been done, documentation received indicates the training was inadequate in that it does not meet the requirements of 725.116 for the following reasons:

-- Although this facility has a personnel training program, it does not cover waste handling procedures. Some "Right to Know" information on materials used on site was included in this training. No instruction on how to handle wastes or respond to a waste related emergency in such a way as to insure compliance with part 725 was ever given according to Mr. John Dupuy.

-- The training program is conducted at least in part by Mr. John Dupuy. Mr. John Dupuy was unfamiliar with Proper RCRA wastes handling and the contingency plan/emergency procedures outlined in Title 35 IL Administrative Code Part 725. If Mr. John Dupuy is to train on site employees in emergency procedures he should have verifiable training in hazardous waste management and emergency procedures. Such verification could either be documentation of training or the ability to demonstrate knowledge of such procedures when questioned. He should also be familiar with potential affects of emergency waste management on the process areas and wastes or potential waste streams in these areas.

725.116 (b) -- Personnel Training -- Although some personnel training had been done, it did not cover the areas required by 725.116. No site personnel have had RCRA personnel training.

725.116 (c) -- Personnel Training -- The training program did not specify an annual review of training would be done.

725.116 (d) -- Personnel Training -- The training records did not meet the requirements of this section for all personnel involved in hazardous waste management. These deficiencies included the absence of a written description of RCRA training for all personnel involved in hazardous waste management and documentation that such training had been done for all employees involved in hazardous waste management.

The training outline received by this facility did not address the RCRA requirements. The program is not an adequate RCRA training program.

725.131 -- Maintenance and Operation of Facility -- This facility stored wastes in containers in poor condition, in open containers and in multiple areas throughout the facility among various junk items. One container had deteriorated completely leaving the waste and a metal top in a pile on the floor. No provision was made to prevent wastes from entering the floor drains on site. The facility roof was in poor condition. Mr. John Dupuy said that water enters the facility when it rains. This water is pumped into a drain near the lead pot area. Mr. John Dupuy did not know where the drain lead. Waste contaminated rinsewater was seen flowing into a drain in the acid tank area. Smoking was not restricted where potential ignitable wastes are stored. A well access is located near an area where lead contaminated wastes are generated. The floor in this area was not clean. No provision was made to prevent contaminated water (Eg..rainwater accumulated on the floor) from entering the well (See photos listed for apparent violations of 725.271 and 725.273 below and photos 5 roll 164, 2, 3 and 7 roll 165 and 11-14-90 site 1250205005 video).

725.137 -- Arrangements with Local Authorities -- No Agreements are documented. According to Mr. John Dupuy the Fire and Police departments have visited the site and the hospital has been made aware of the operations at the facility. No agreements with contractors have been made.

725.151 -- Purpose and Implementation of Contingency Plan -- No Contingency Plan was available on site. No such plan has been written down according to Mr. John Dupuy.

725.155 -- Emergency Coordinator -- Although Mr. John Dupuy stated that he was the emergency coordinator, the facility is in apparent violation of this section because the primary emergency coordinator does not meet the requirements of 725.155 for the following reason. Mr. John Dupuy was apparently not familiar with the location and characteristics of waste handled at the facility as required by this section.

725.173 -- Operating Record -- This facility apparently operated a Storage facility without maintaining a written operating record. The facility did maintain some copies of analytical results and manifests for wastes shipped off site. These records were not complete.

725.174 (a) -- Availability, Retention and Disposition of Records -- This facility did not maintain or have copies of all records available. Mr. John Dupuy said that he did not

have all of the required records. Mr. John Dupuy said he would submit copies of what records he could find which were not found during the inspection.

725.175 -- Annual Report -- This facility operated a Storage facility without submitting an annual report as a storage facility by March 1 of the following year for storage of wastes beginning in 1985 and continuing currently.

725.212 (a) -- Closure / Closure Plan -- This facility apparently operated a Storage facility without a written closure plan containing the information described in 725.212 (b). According to Mr. John Dupuy no such document exists.

725.242 -- Closure / Cost Estimate -- This facility apparently operated a Storage facility without developing a detailed closure cost estimate. According to Mr. John Dupuy no such estimate exists.

725.243 -- Closure / Financial Assurance --This facility apparently operated a Storage facility without providing for financial assurance for facility closure. I found no evidence of the existence of such an financial assurance. No such record of financial assurance has been submitted to the Agency.

725.271 -- Use and Management of Containers / Condition of Containers -- Hazardous and unknown wastes were found on site in leaking and deteriorated containers (See photos 9 and 10 roll 165, 0, 1, 3, 6 through 8 and 10 roll 166, 8 roll 167, 3 and 4 roll 168 and 11-14-90 site 1250205005 video).

725.273 (a) and (b) -- Use and Management of Containers / Management of Containers -- Most wastes generated by the current facility operations area stored in open containers. Hazardous and unknown wastes were found on site in leaking and deteriorated containers. Wastes from OPS were also seen being stored and accumulated in open top containers (See photos 7 and 11 roll 164, 4 through 6 and 8 through 11 roll 165, 0, 1 and roll 166, 8 through 10 roll 167, 0 through 4 roll 168 and 11-14-90 site 1250205005 video).

725.274 -- Container Storage Inspection Requirements -- According to Mr. John Dupuy there are no regularly scheduled inspections of, or records for inspections of the waste storage areas. Mr. John Dupuy indicated that he had never been in some of the areas where we discovered wastes. Several waste drums were in poor condition. Most waste drums were being stored open. Waste was found on the ground in some areas (See apparent violations 725.271 and 725.273 listed above).

725.291 -- Use and Management of Tank Systems / Assessment of Existing Tank Systems -- The above ground tanks located west of the in-ground tanks did not have a secondary containment system. Mr. John Dupuy said that the in-ground tanks did have a liner. No documentation was available on the tank liner. There was no documentation or visual evidence of a leak detection system. No documentation of the volume the liner could hold was found. The tank system apparently does not have an acceptable documented secondary containment system. Hazardous waste rinsewater is accumulated in the in-ground and above-ground tanks located just west of the acid wash and rinsewater tanks used in the washing process. No record of a tank assessment was found as required until acceptable secondary containment is provided (See comment L, site sketch, photos 2 through 6 and 8 through 10 roll 164, 3 roll 167 and 11-14-90 site 1250205005 video).

725.293 -- Use and Management of Tank Systems / Containment and Detection of Releases -- The above ground tanks located west of the in-ground tanks did not have a secondary containment system. Mr. John Dupuy said that the in-ground tanks did have a liner. No documentation was available on the tank liner. There was no documentation or visual evidence of a leak detection system. No documentation of the volume the liner could hold was found. The tank system apparently does not have an acceptable documented secondary containment system. No record of a tank assessment was found as required until acceptable secondary containment is provided (See photos 2 through 6 and 8 through 10 roll 164, 3 roll 167 and 11-14-90 site 1250205005 video).

725.294 -- Use and Management of Tank Systems / General Operating Requirements -- The above ground tanks located west of the in-ground tanks did not have spill prevention controls and overfill prevention controls. Mr. John Dupuy was not aware of any leak detection system. There was no documentation or visual evidence of a leak detection or overfill prevention system. There was evidence that the system did not have a working overfill prevention system in that a tank was overflowing during the inspection. Section 725.296 was also apparently not complied with (See 725.296 below, photos 2 through 6 and 8 through 10 roll 164, 3 roll 167 and 11-14-90 site 1250205005 video).

725.295 -- Use and Management of Tank Systems / Inspections -- According to Mr. John Dupuy there are no regularly scheduled inspections of, or records for inspections of the waste storage areas. A tank was found to be overflowing during the inspection. No documentation was available indicting inspections of the tank system are conducted (See photos 2 through 6 and 8 through 10 roll 164, 3 roll 167 and 11-14-90 site 1250205005 video).

725.296 -- Use and Management of Tank Systems / Response to Leaks and Spills -- One of the above ground tanks located west of the in-ground tanks was overflowing. The waste was flowing down a drain located near the tank system. Some of the liquid was removed from the tank to prevent continuation of the overflowing. Nothing was done to prevent migration of the waste which had escaped the tank. There was no report made to the Agency. No documentation that adequate secondary containment was installed has been provided (See photos 2 through 6 and 8 through 10 roll 164, 3 roll 167 and 11-14-90 site 1250205005 video).

728.107 (a) -- Waste Analysis / Land Disposal Restrictions (LDR) - General -- This facility did not determine if any of it's wastes were LDR wastes.

728.107 (a) (6) -- Waste Analysis / Land Disposal Restrictions (LDR) - Records -- This facility did not maintain records of past LDR determinations for wastes shipped off site in January 1988.

728.150 (a) -- Prohibitions on Storage of Restricted Wastes -- This facility stored restricted wastes on site for more than 90 days without a permit. The wastes were stored despite available Treatment or Disposal capacity. According to Mr. Steve Conway of Safety Kleen waste 1:1:1 Trichloroethane solvent was analyzed in the spring of 1990. Mr. Conway contacted the facility to arrange for pickup of the wastes in April of 1990. He was told to wait due to a lack of funds available to PLS. This waste was still on site on November 14, 1990. Other suspected LDR wastes have been stored on site since at least October 25, 1985.

728.150 (a) (2) (A) -- Prohibitions on Storage of Restricted Wastes -- This facility stored restricted wastes on site for more than 90 days without a permit. The wastes were stored in unmarked containers (See photos 7 and 11 roll 164, 4 through 6 and 8 through 11 roll 165, 0, 1 and roll 166, 8 through 10 roll 167, 0 through 4 roll 168 and 11-14-90 site 1250205005 video).

728.150 (a) (2) (B) -- Prohibitions on Storage of Restricted Wastes -- This facility stored restricted wastes on site for more than 90 days without a permit. The wastes were stored in unmarked tanks (See photos 2 through 6 and 8 through 10 roll 164, 3 roll 167 and 11-14-90 site 1250205005 video).

9. Comments:

A. A Safety Kleen sample label was found on a drum on site . I contacted Steve Conway at Safety Kleen's Pekin office. Mr. Conway said that sample # 077458 was collected by Safety Kleen in 1990. He did not know the exact collection date. He said this was a waste grease. He said the sample report for

this waste was dated April 19, 1990. The waste did not trigger a hazardous parameter but was classified as D001 for handling purposes. Another sample 077457 collected the same day was determined to be 1:1:1 Trichloroethane (84.8%) with a low pH (2.4). This waste was determined to be an F001 listed hazardous waste. This report was dated April 18, 1990. Mr. Conway said he contacted a lady named Duke (Danner) and sent her the results. He said that the facility had been contacted regarding waste pickup. According to Mr. Conway, during that conversation Duke said that they should put the pickup on hold because the facility was having money problems. Mr. Conway did not recall the last name of the lady he had talked to at first. When I mentioned the name Duke Danner he said he believed that was the person. Mr. Conway also said that the contaminated soap lubricant was not sampled. He said the facility indicated they were going to check out some other companies that may be able to handle this material (See photos 1 and 3, roll 166).

B. Mr. John Dupuy stated that he originally bought this facility as a "Turn Key" operation. He had not intended to be an on site manager. He said when he bought the facility he believed that the personnel on site knew how to keep it running. He said he soon learned that was not the case.

C. Mr. John Dupuy said that he has been trying to reduce the amount of hazardous materials used on site since he purchased the facility. He described some of the changes implemented as follows; PLS has eliminated much of the lead usage by eliminating the need for lead lubrication before each pass the wire makes in the drawing process. Mr. John Dupuy stated that PLS uses dry coat on the round sizing. OPS used lead. PLS uses "Turks Head" for most passes instead of dies. This eliminates the need for a lead coating before these passes. PLS now uses different sizes of stock wire. This has reduced the number of passes to about 4. OPS used one size of stock wire for all sizes of finished wire. OPS ran 4 to 6 passes to produce the same wire products. OPS cleaned wire in acid and/or solvents prior to each pass. OPs coated wire with lead before each pass. PLS only coats the wire before the finish pass. wire is only cleaned once. The solvent cleaning process has been replaced by a caustic cleaner. According to Mr. John Dupuy the caustic cleaner keeps the acid wash from getting dirty as often. Mr. John Dupuy also stated that he plans to modify the finish pass by using a pre-Turks head pass system to eliminate the need for a lead coat prior to that pass also.

D. According to Mr. John Dupuy the waste grease seen on site is a lubricant used by OPS for special orders. He said PLS has never used this lubricant.

E. Mr. John Dupuy said that he did not recall receiving a Pre-Enforcement Conference Letter from the Agency. He was

not aware that he had missed a meeting regarding apparent violations found during the June 14, 1990 complaint inspection.

F. Mr. John Dupuy was not sure when he began operating the facility. While reviewing the records he gave me a copy of a draft press release from Leunig/Murphey. I called this company in December 1990. The company did not have a record of the date the press release ran. I was referred to Mr. Don Schreckengost. Mr. Schreckengost said he did not know when the release was published. He said he had written the release. He said he wrote the release to help out his friend, Mr. Dupuy. He said he had retired from Bixby Zimmer in 1983. He said he was no longer working for Bixby Zimmer when he wrote the release. He referred me to Mr. Leunig. I said that I had been referred to him by Mr. Leunig's office. He said that Mr. Thomas West could tell me the date of the sale as he was the attorney for Bixby Zimmer for the sale. I contacted Mr. West of West, Neagle and Williamson in Galesburg. Mr. West looked up the date of the sale and said it was October 25, 1985.

G. I spoke with Mr. Thomas Bloom and Mr. Terry Roundtree of USEPA regarding site conditions at the facility during the 1988 inspection. They were both on site at the facility during this inspection. Mr. Bloom said that several RCRA type land problems were noted but were not addressed as they were not conducting that type of inspection. He said he remembers that the place had drums in poor condition all over the place. Mr. Roundtree concurred with the site conditions described by Mr. Bloom. Mr. Roundtree did not say anything more regarding the site. I was given names and telephone numbers of the appropriate people to obtain a copy of the report narratives and letters written by these inspectors and their divisions.

H. Mr. John Dupuy said that Ms. Danner, a former site employee was trying to put him out of business. He said that she had done a number of things to damage the company's current business. He said he believed that she wanted to run her own business by setting up jobs for a competitor and collecting a fee as the go-between.

I. Mr. John Dupuy indicated that he wanted to cooperate with the Agency. He said he did not have much money available so he hoped it would not cost a lot.

J. Wastes were apparently stored (over 90 days) and accumulated (less than 90 days) in both tanks and containers based on Mr. John Dupuy's descriptions of the areas and processes on site. Apparent violations of 722 (dealing with accumulation) and 725 (dealing with storage) were both cited based on the management of tank and container storage and accumulation areas seen during the inspection. TSD and

Generator checklists were both completed for tank and container management requirements.

K. Mr. Dupuy did not extinguish his cigarette when in the waste storage or generation areas in the plant. No Smoking signs were not posted near all the waste storage areas. Some of the undetermined wastes in these areas may be ignitable. If any of the wastes in these areas are determined to be ignitable, this site condition will be re-evaluated to determine compliance with 35 IAC 725.117.

L. Mr. Dupuy described the in-ground tanks and above -ground tanks west of the acid wash and rinsewater tanks as being used to hold rinsewater overflow and used rinsewater. The rinsewater tank was pumped down during the inspection as it was found to be overflowing. No Agency personnel witnessed this pumping. Mr. Dupuy said the excess contaminated rinsewater had been pumped to the overflow tanks described above. I did not notice any volume change in these tanks after the pumping compared to prior to the pumping. I was unable to confirm that the waste had actually been transferred to any of these tanks during the inspection.

M. Unknown wastes were found on site in deteriorated containers. If any of these wastes are found to be hazardous, this site condition will be reviewed to determine compliance with 35 IAC 725.272 -- Use and Management of Containers / Compatibility of Waste with Containers (See photos 1, 8 and 10 roll 166, 3 roll 168 and 11-14-90 site 1250205005 video).

Steven C. Townsend Date: Rec'd Jan 30 1991

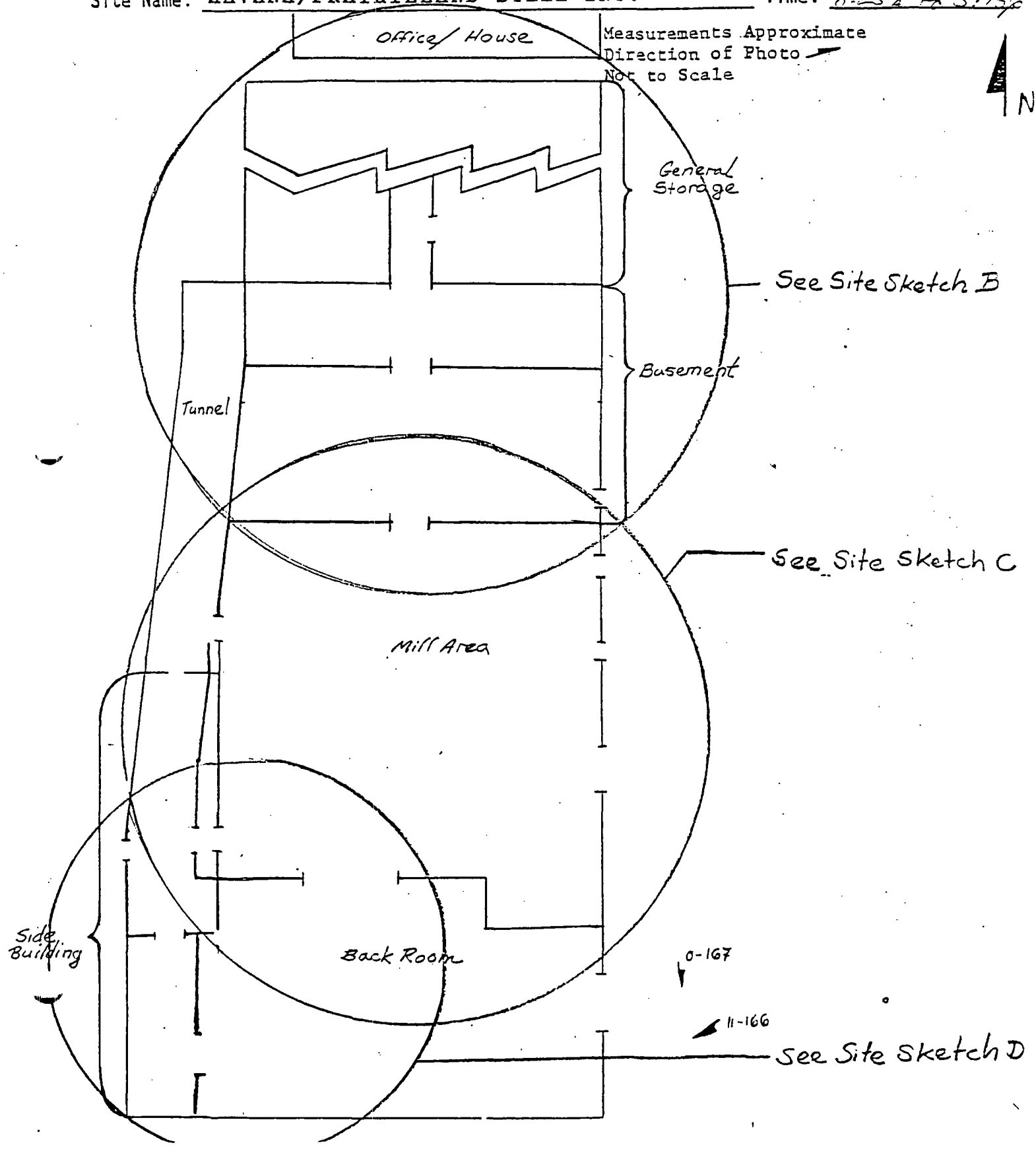
STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

SITE SKETCH A

Date of Inspection: NOVEMBER 14, 1990 Inspector: S. Faulkner

Site Code: 1250205005 County: MASON

Site Name: HAVANA/PRAIRIELAND STEEL INC. Time: 8:25 a to 5:15p



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

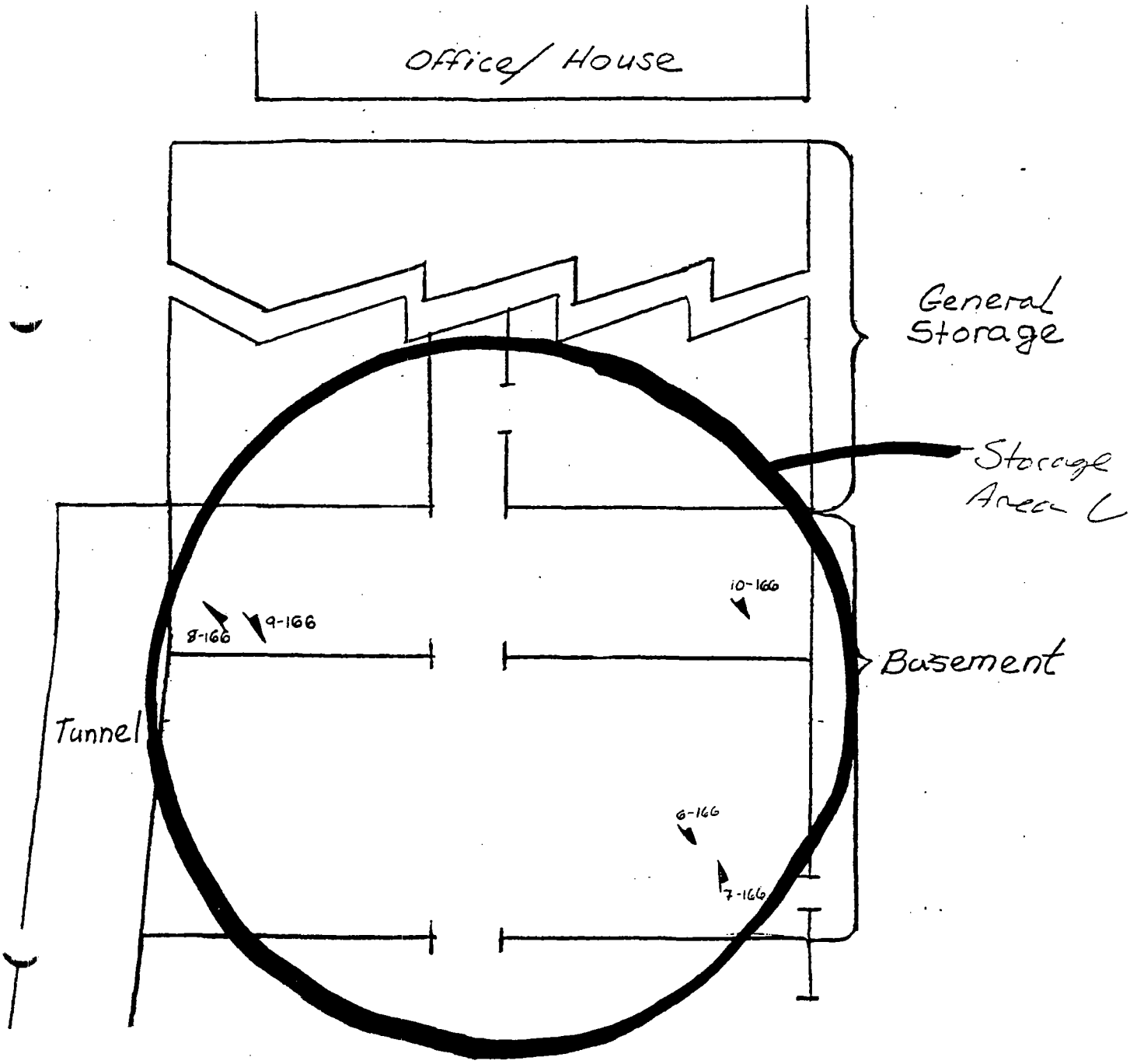
SITE SKETCH B

Date of Inspection: NOVEMBER 14, 1990 Inspector: S. Townsend

Site Code: 1250205005 County: MASON

Site Name: HAVANA/PRAIRIELAND STEEL INC. Time: 8:25a to 5:15p

Measurements Approximate
Direction of Photo
Not to Scale



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

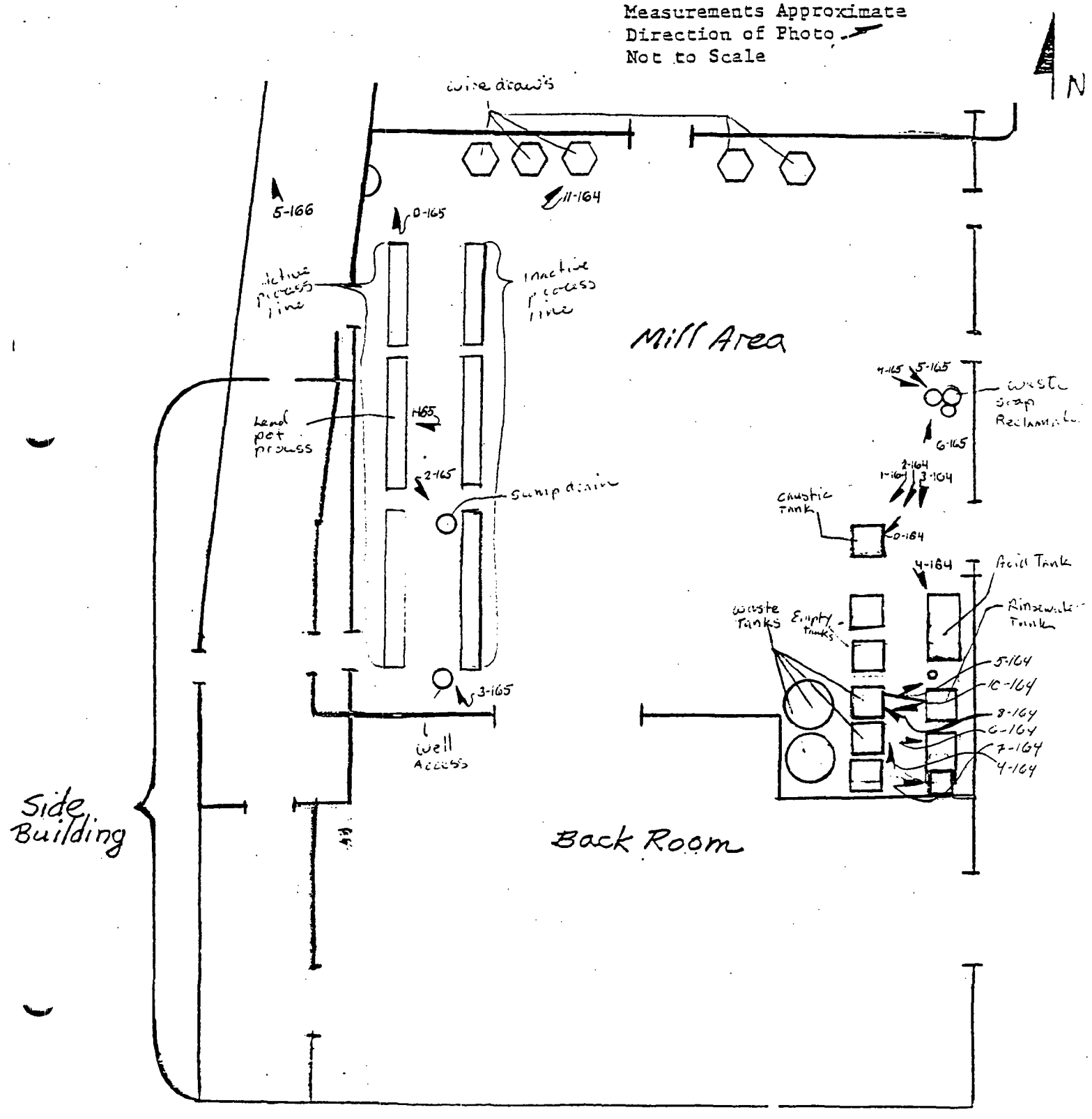
SITE SKETCH C

Date of Inspection: NOVEMBER 14, 1990 Inspector: S. Townsend

Site Code: 1250205005 County: MASON

Site Name: HAVANA/PRAIRIELAND STEEL INC. Time: 8:25 a to 5:15p

Measurements Approximate
Direction of Photo →
Not to Scale



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

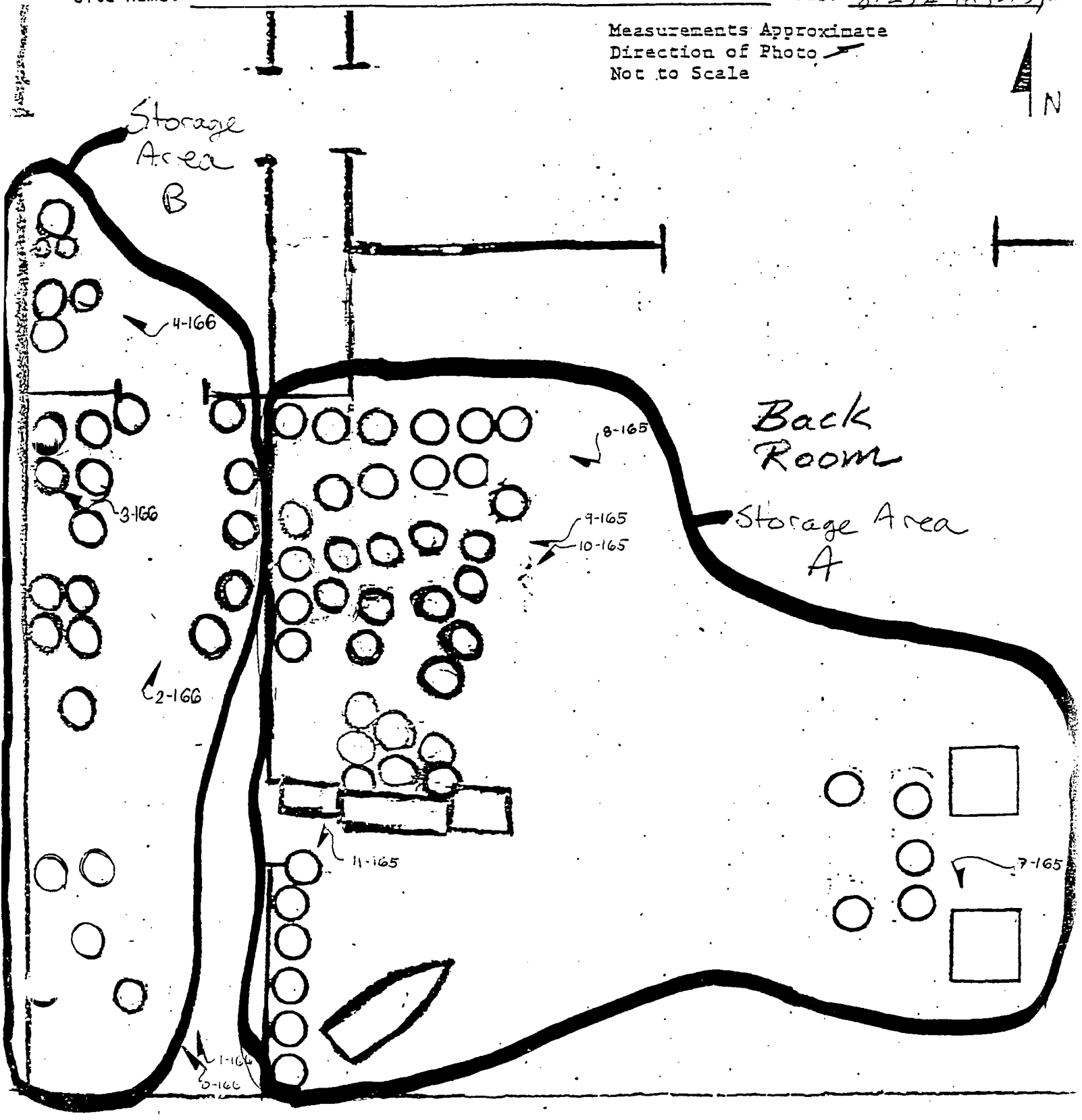
SITE SKETCH D

Date of Inspection: NOVEMBER 14, 1990 Inspector: S. Townsend

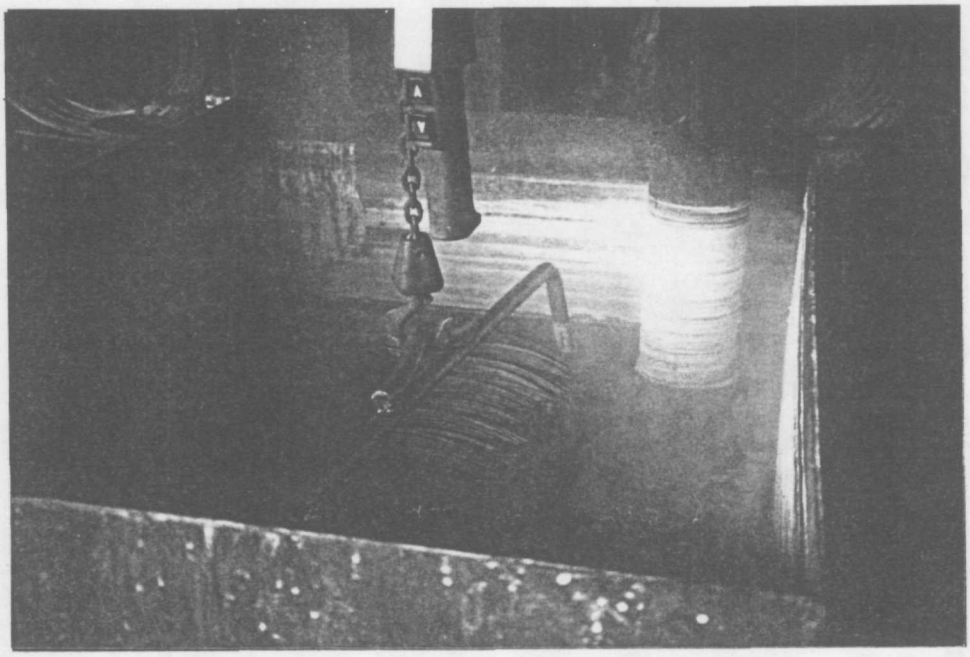
Site Code: 1250205005 County: MASON

Site Name: HAVANA/PRAIRIELAND STEEL INC. Time: 8:25a to 5:15p

Measurements Approximate
Direction of Photo
Not to Scale

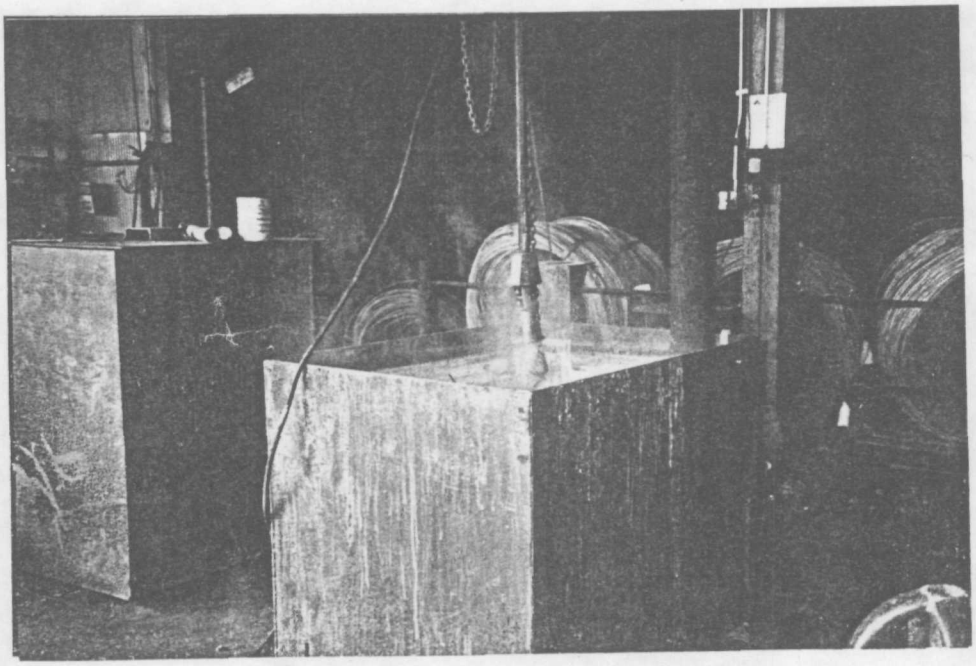


IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SW

0 Roll 164



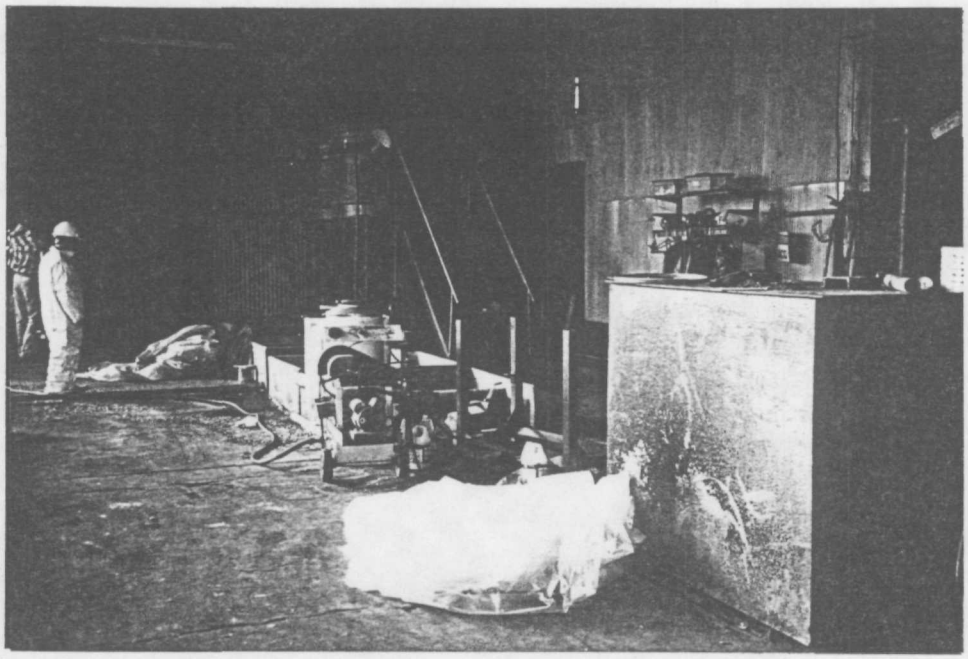
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SW

1 Roll 164

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

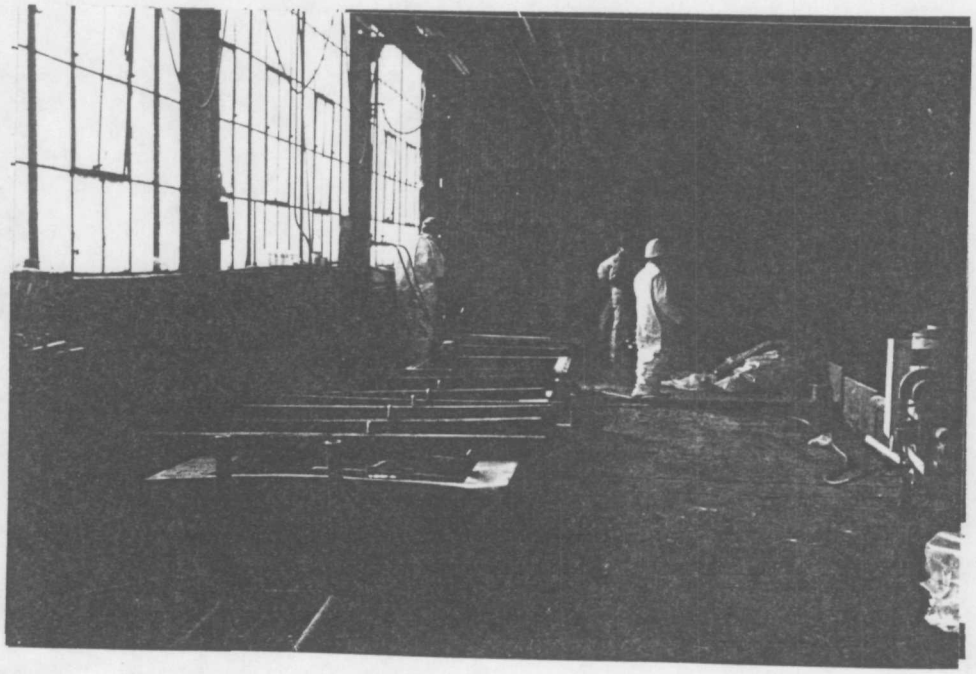
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the S-SW

2 Roll 164

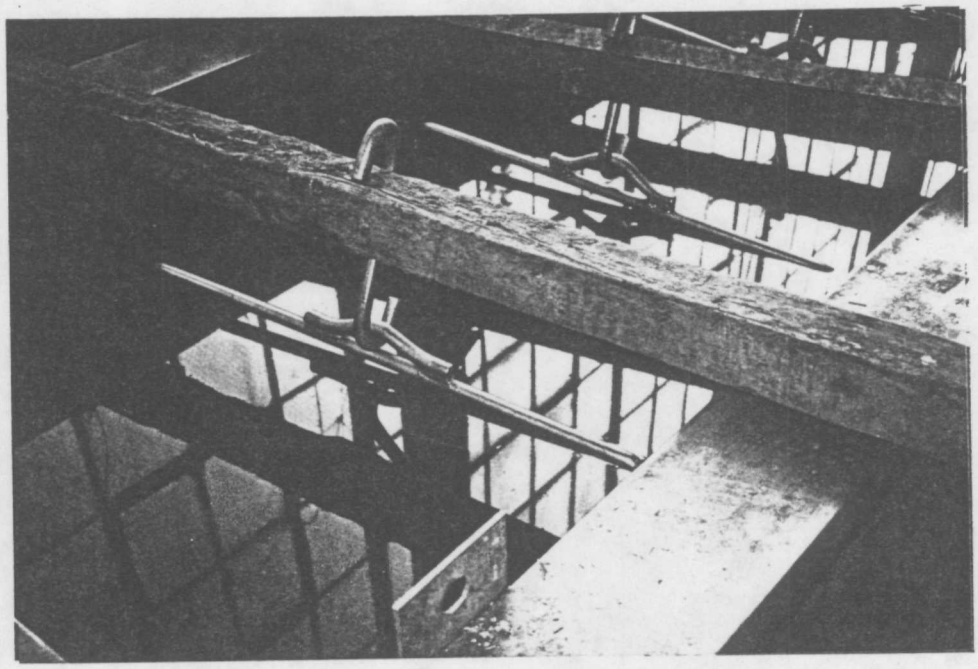


Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the S-SE

3 Roll 164

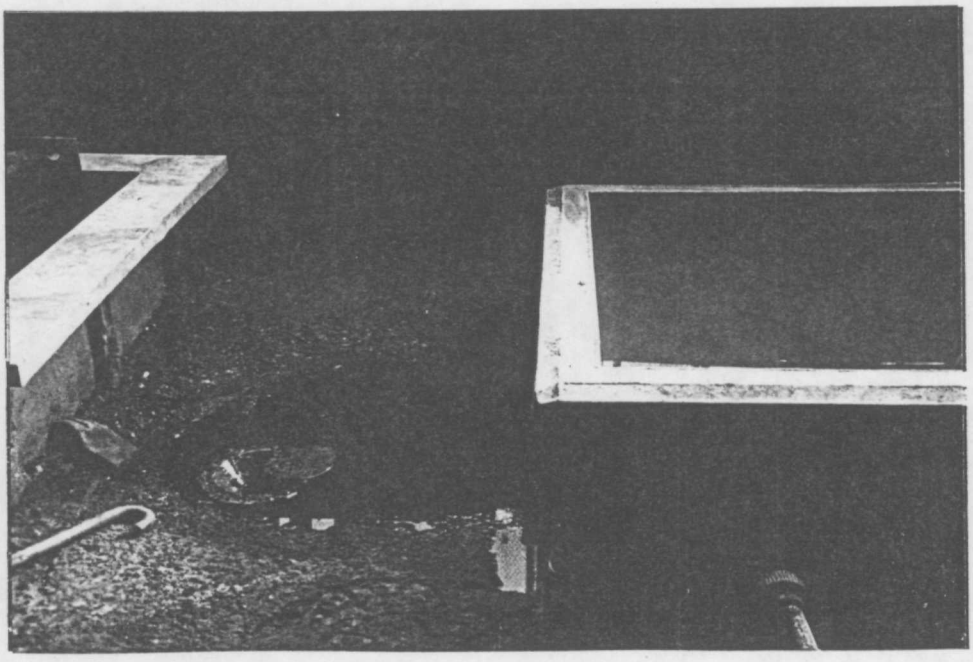


IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SE

4 Roll 164



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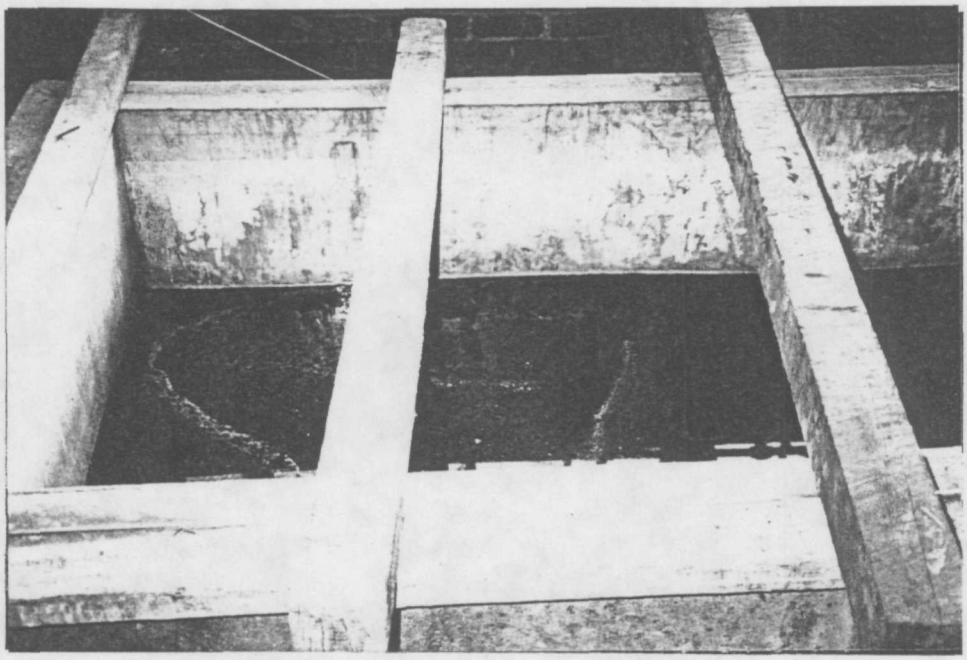
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the E-~~N~~E

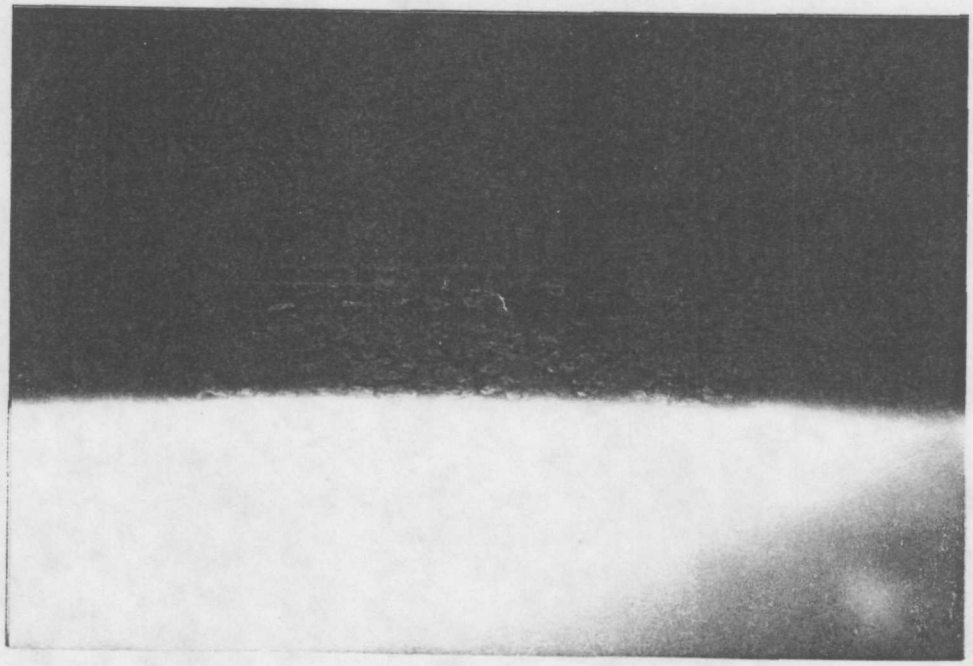
5 Roll 164

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the E

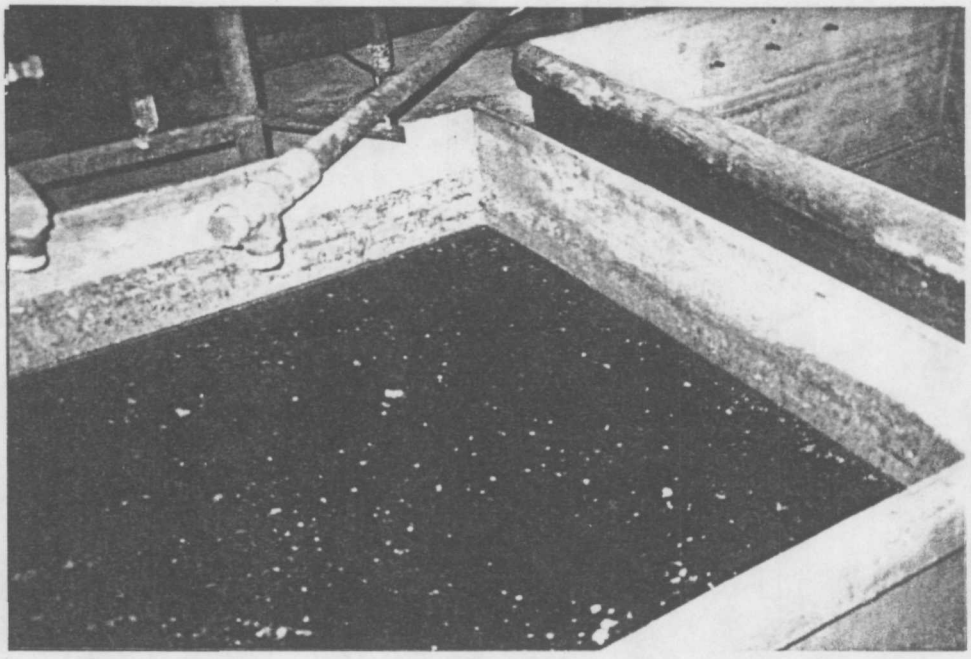
6 Roll 164



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the E

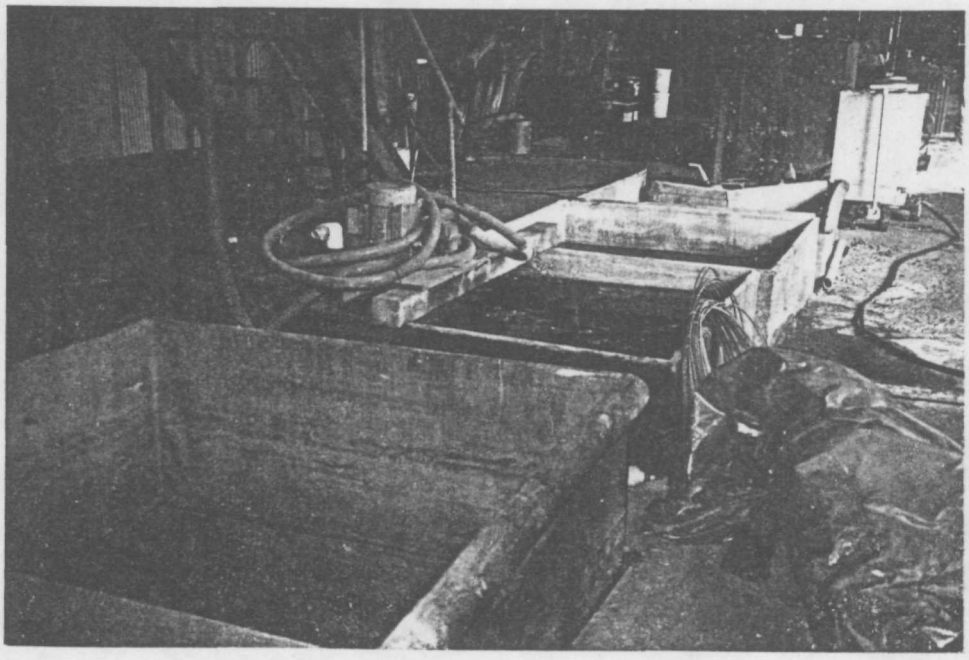
7 Roll 164

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the W-NW

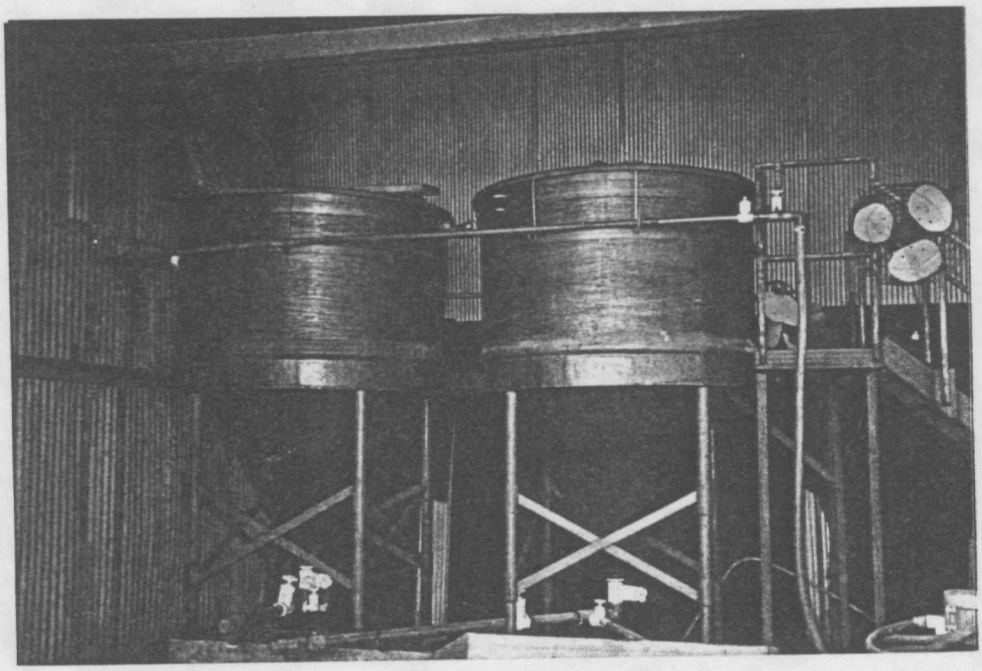
8 Roll 164



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the N-NW

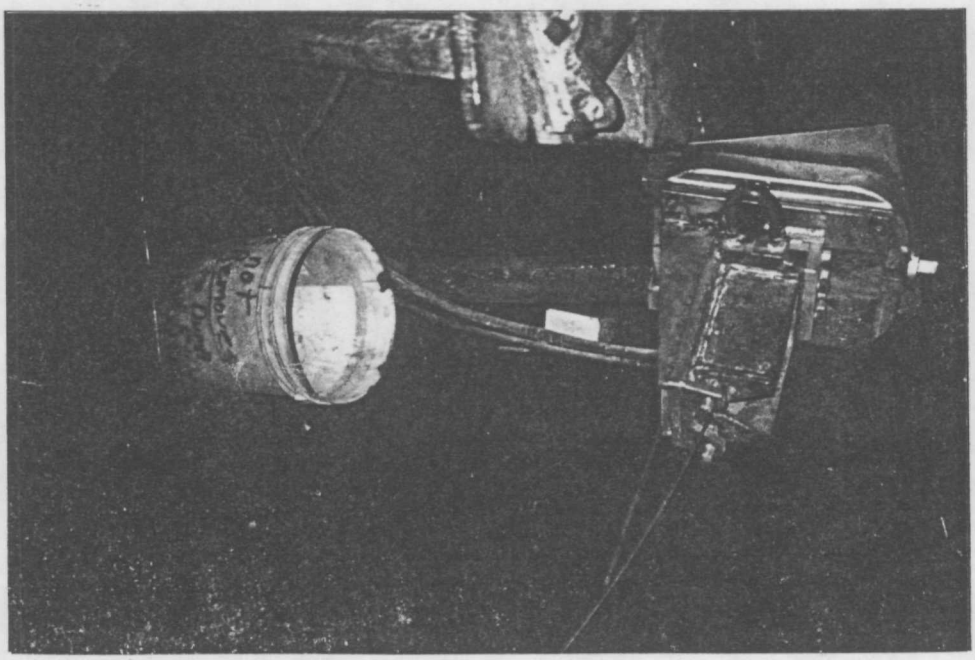
9 Roll 164

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



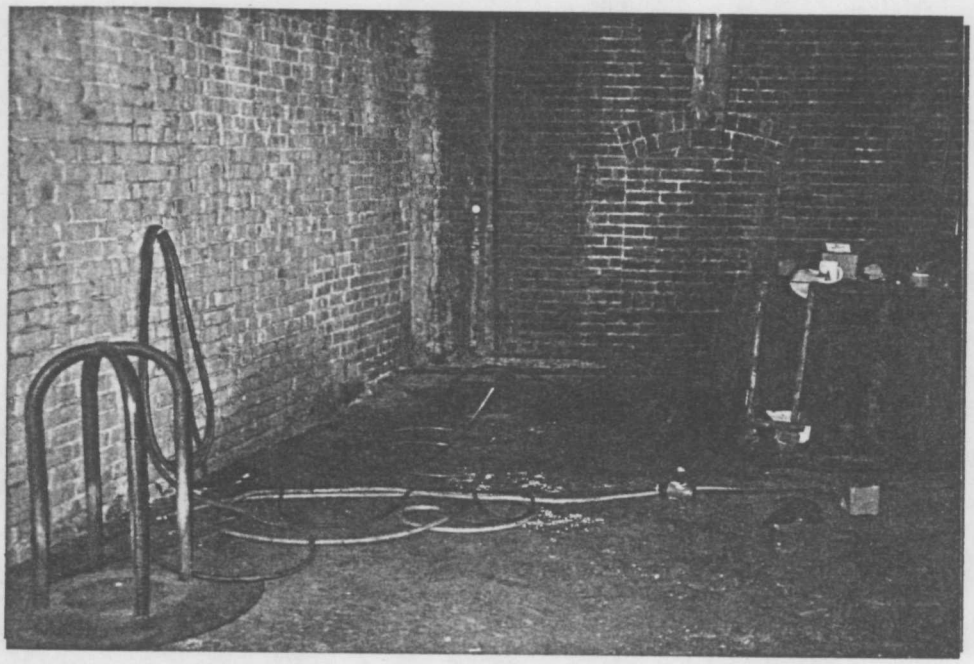
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the W

10 Roll 164



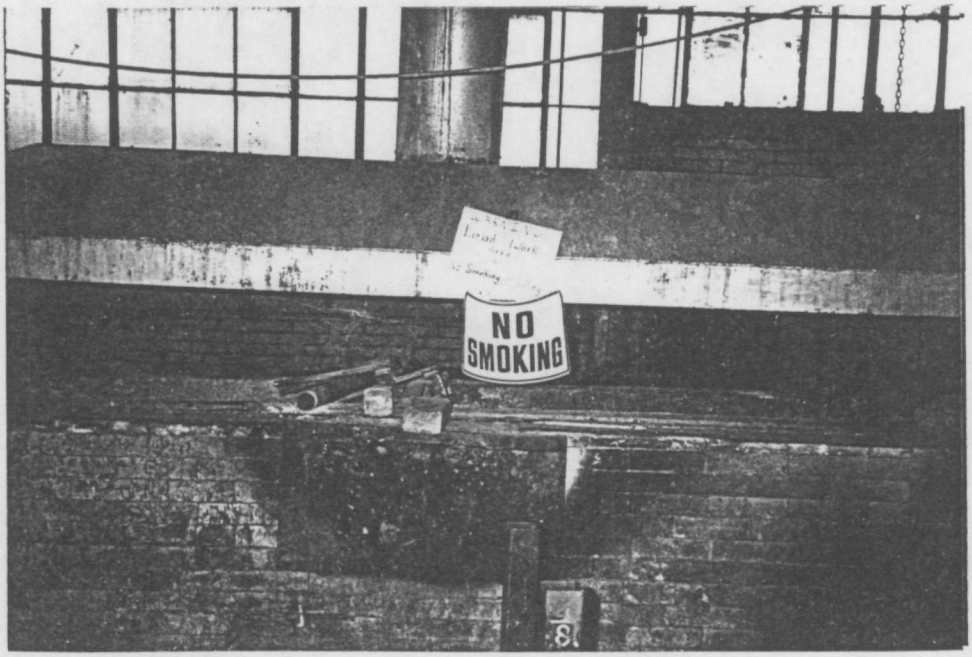
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NE

11 Roll 164



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the N-NW

0 Roll 165



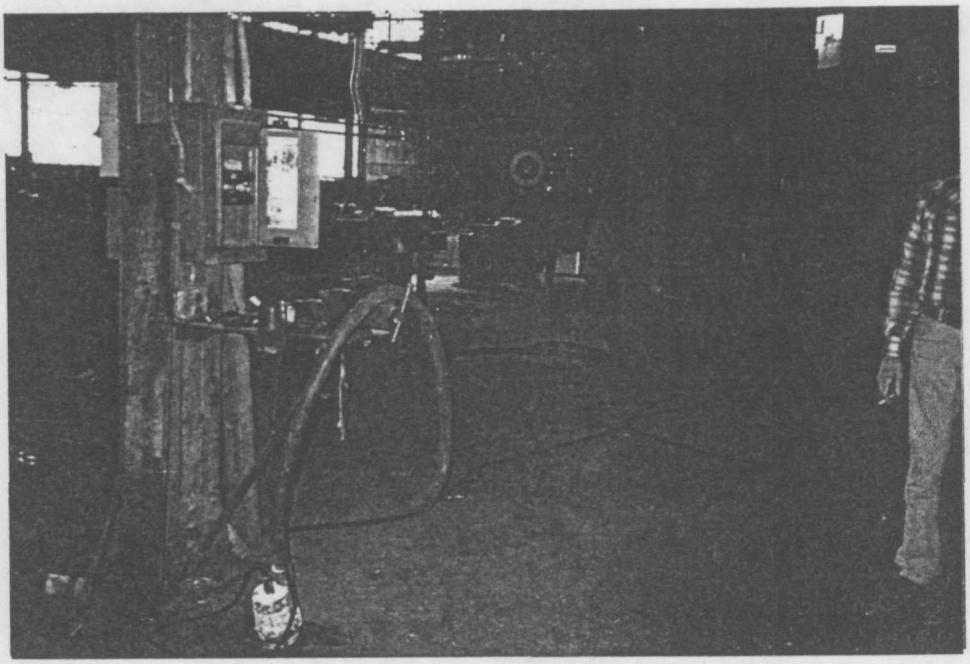
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the W

1 Roll 165

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

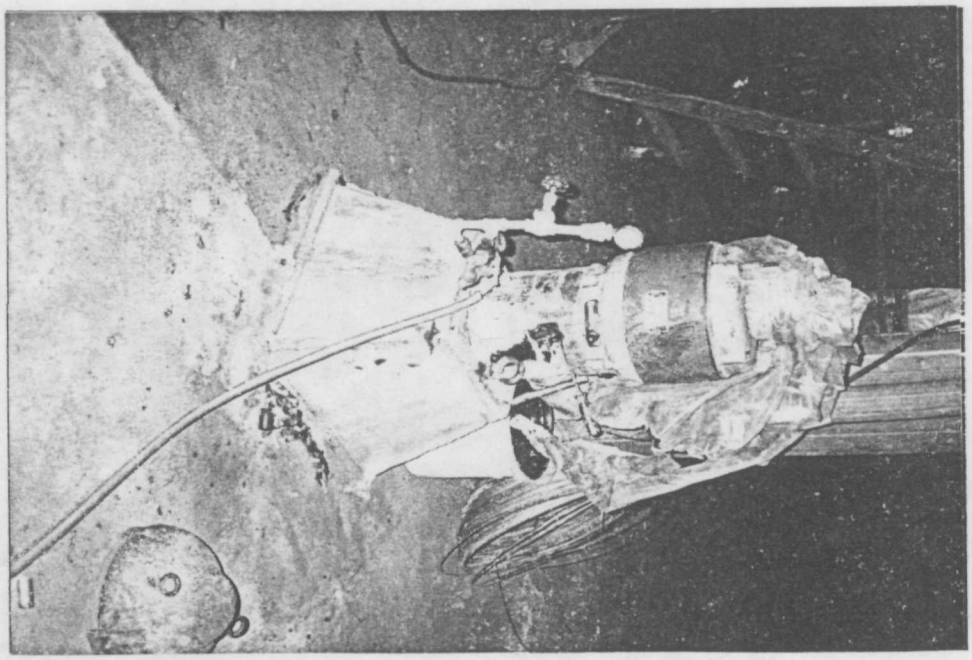
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SE

2 Roll 165



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the NW

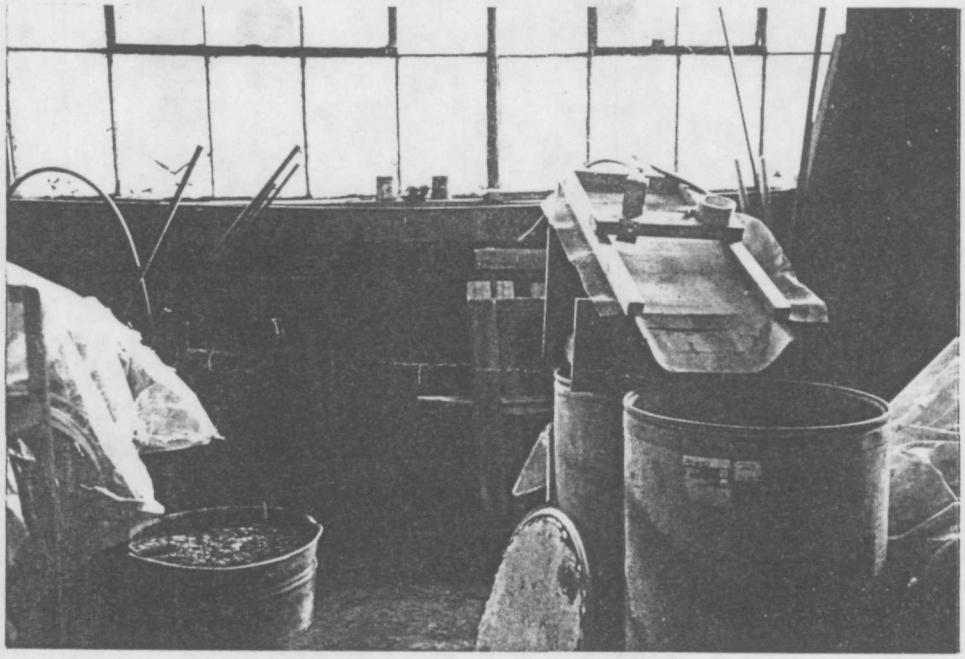
3 Roll 165



IEPA-DLPC Photographs LPC# 1250205005 11-14-90

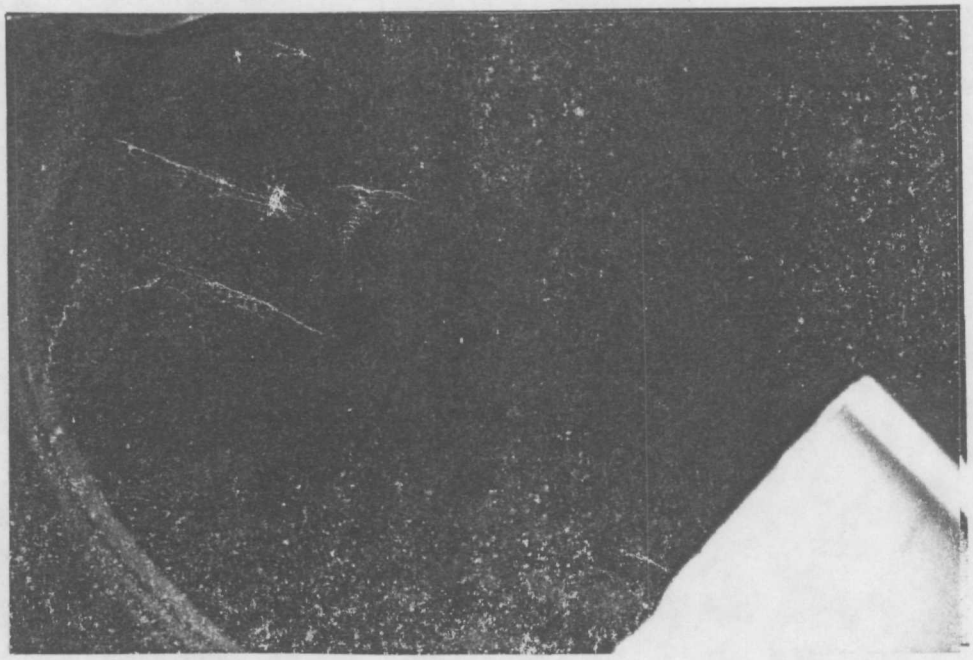
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the E-SE

4 Roll 165

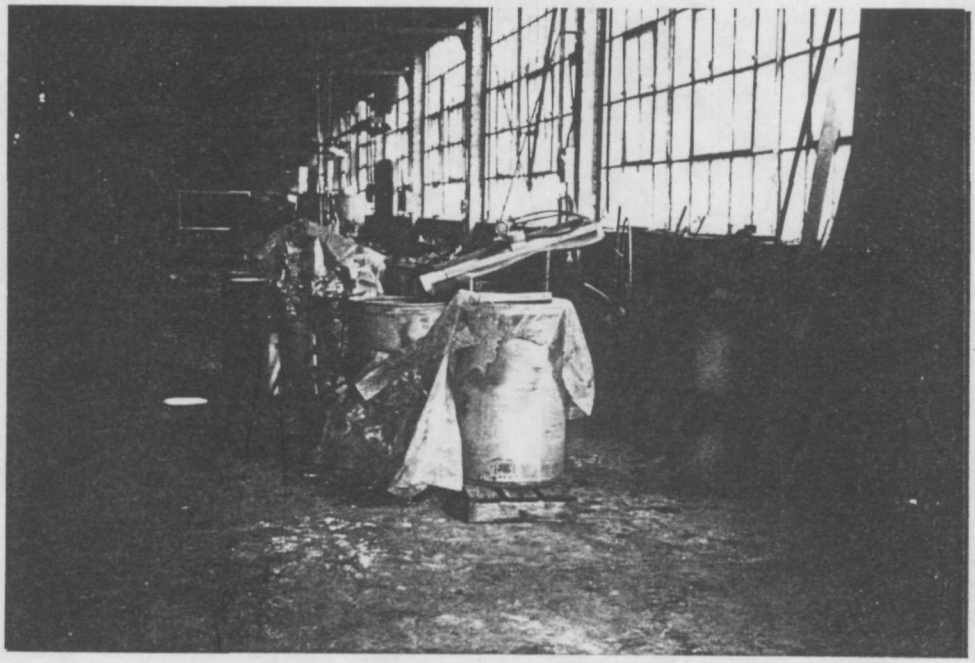


Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SE

5 Roll 165

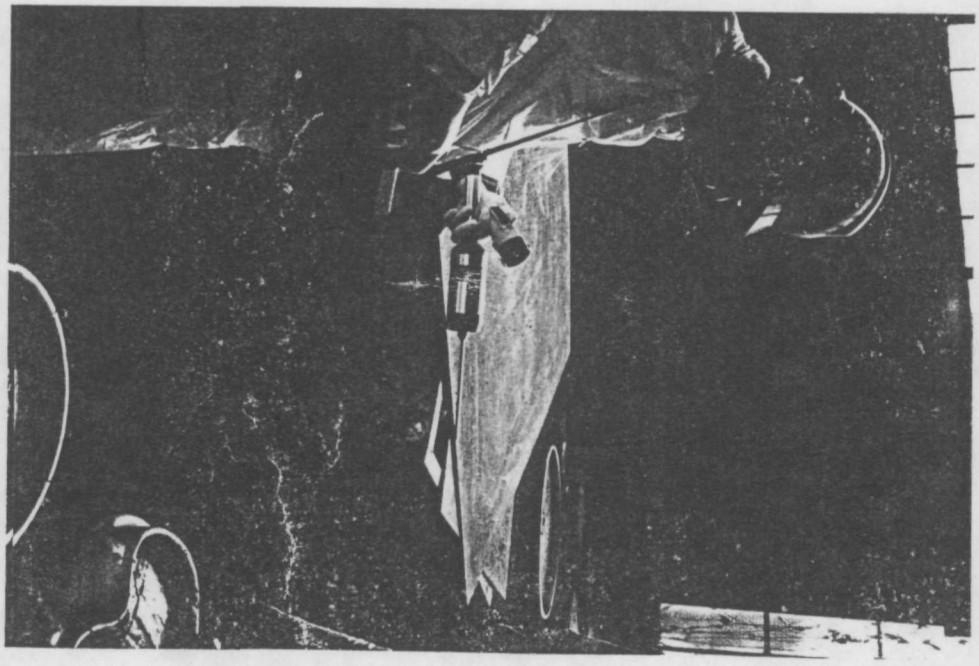


IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the N-NE

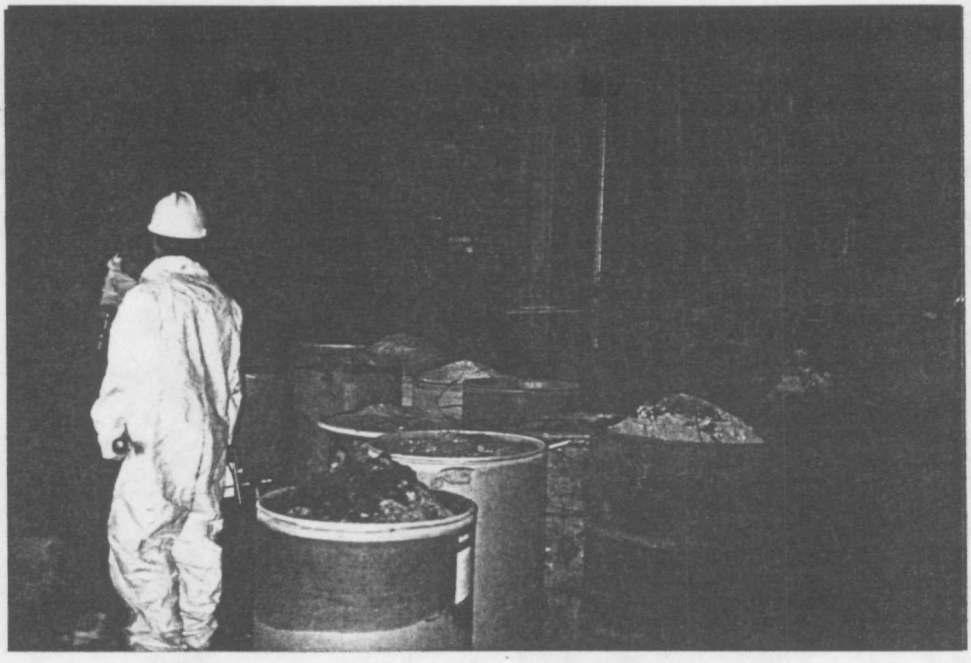
6 Roll 165



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the S-SE

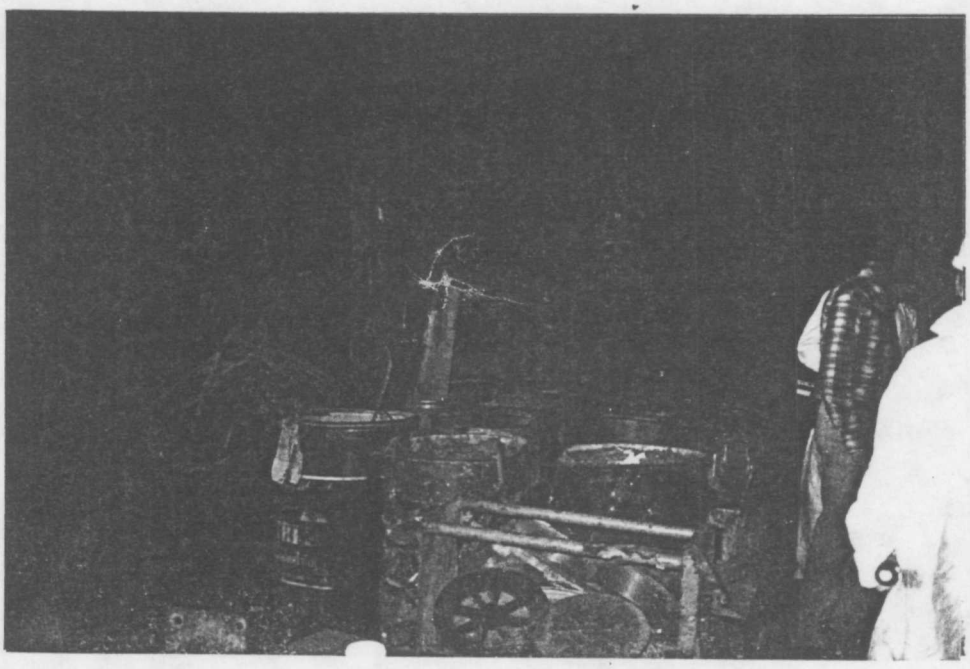
7 Roll 165

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the W-NW

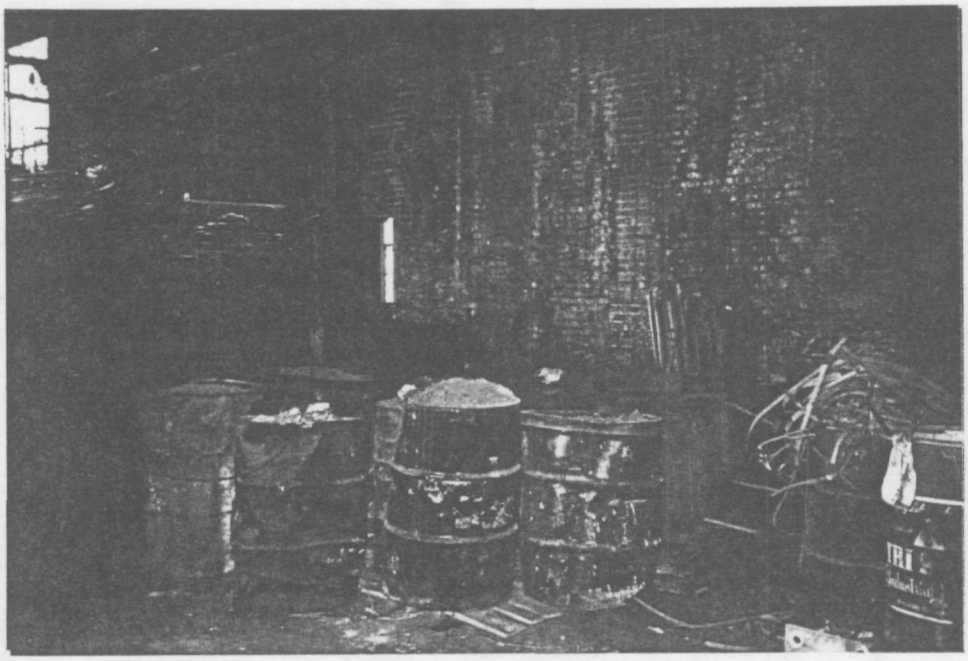
8 Roll 165



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the W

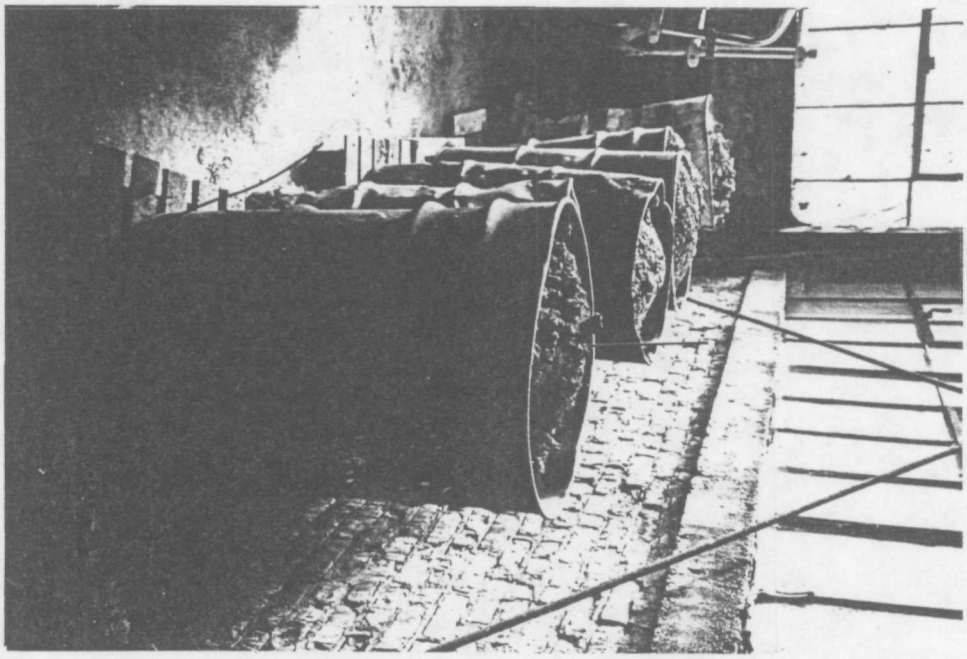
9 Roll 165

IEPA-DLPC Photographs LPC# 1250205005 - 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the SW

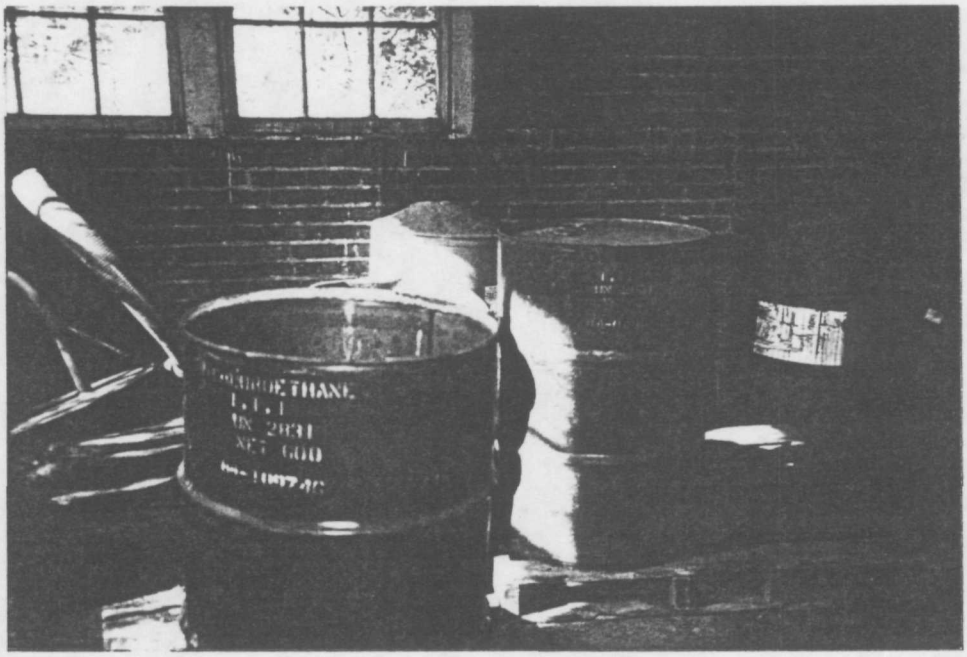
10 Roll 165



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the S-SW

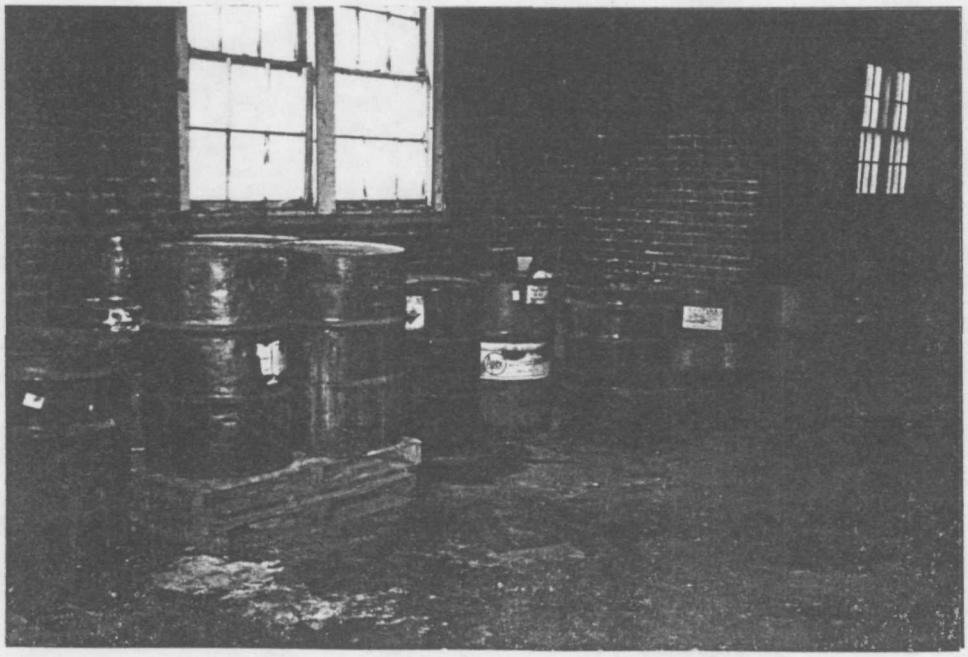
11 Roll 165

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the W-NW

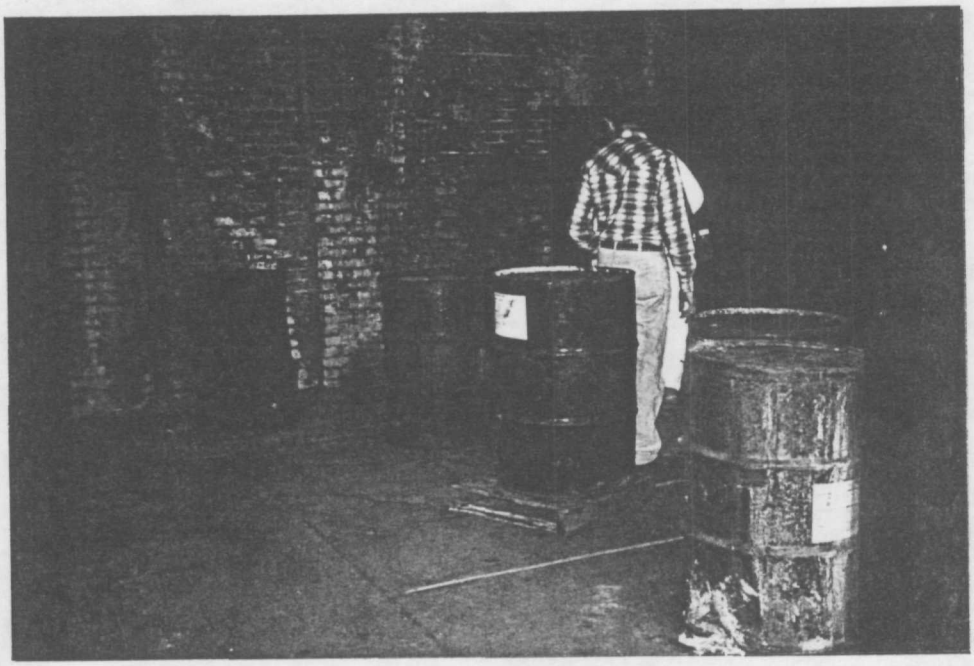
0 Roll 166



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NW

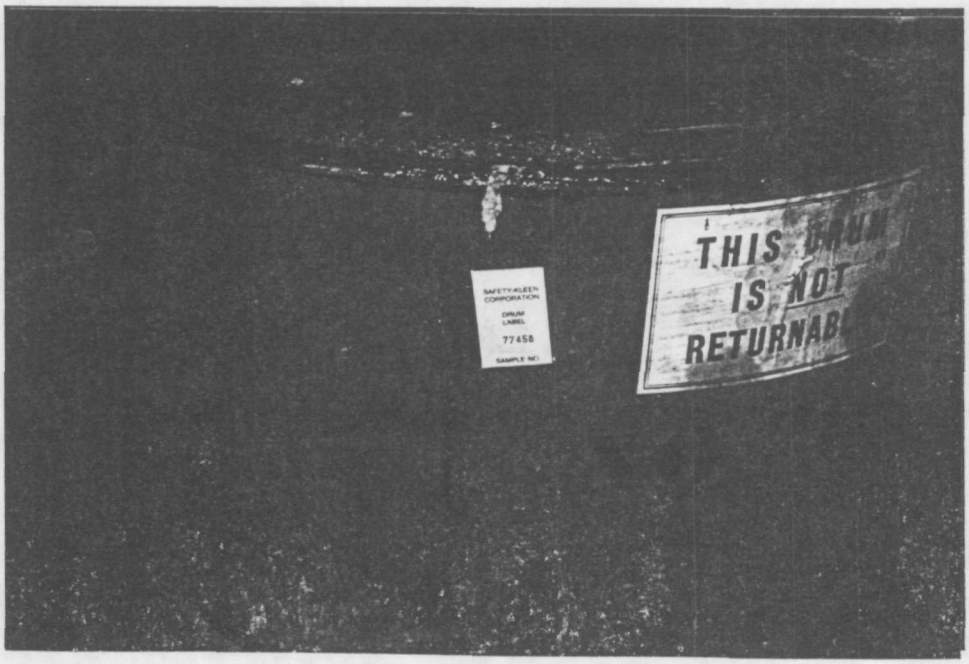
1 Roll 166

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NE

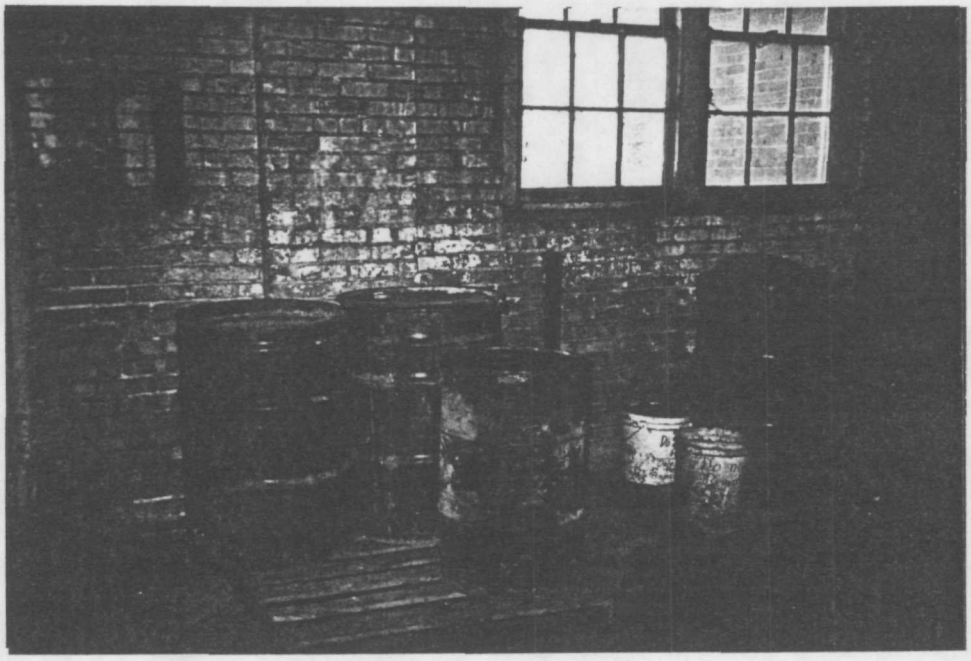
2 Roll 166



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the W-NW

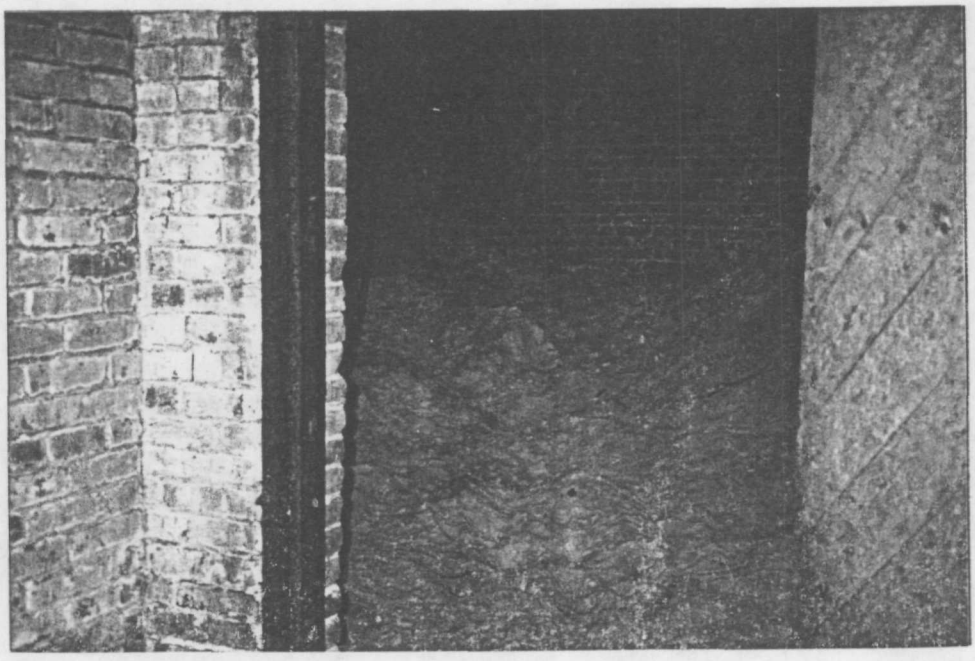
3 Roll 166

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the W-NW

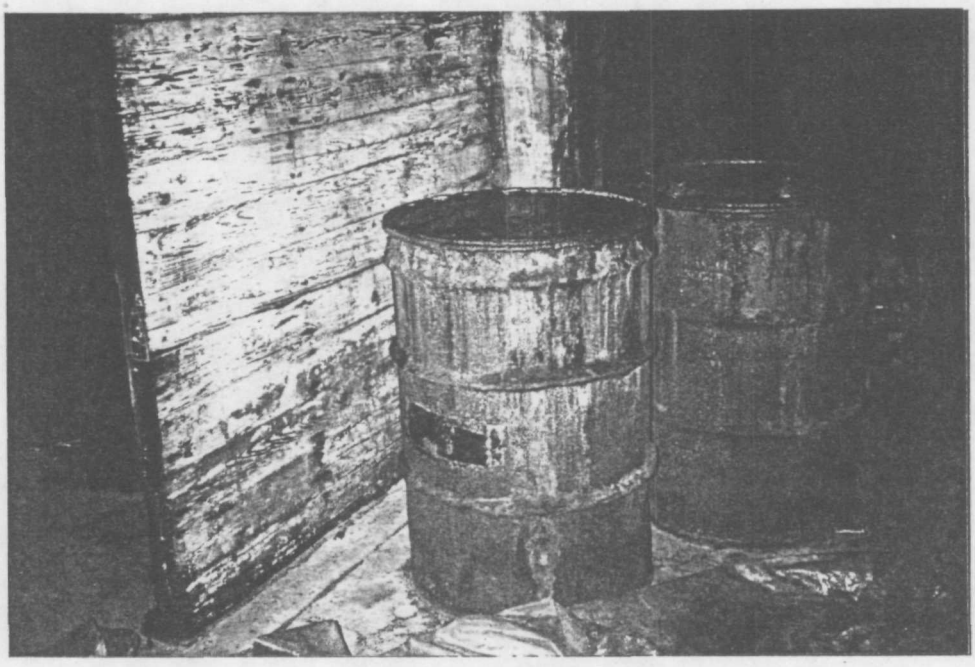
4 Roll 166



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NW

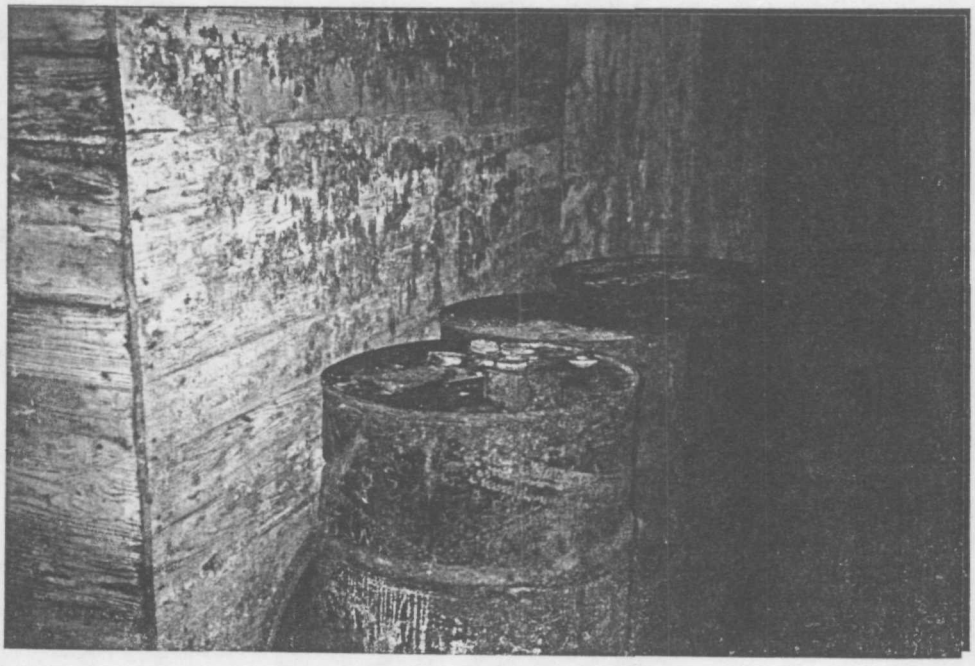
5 Roll 166

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



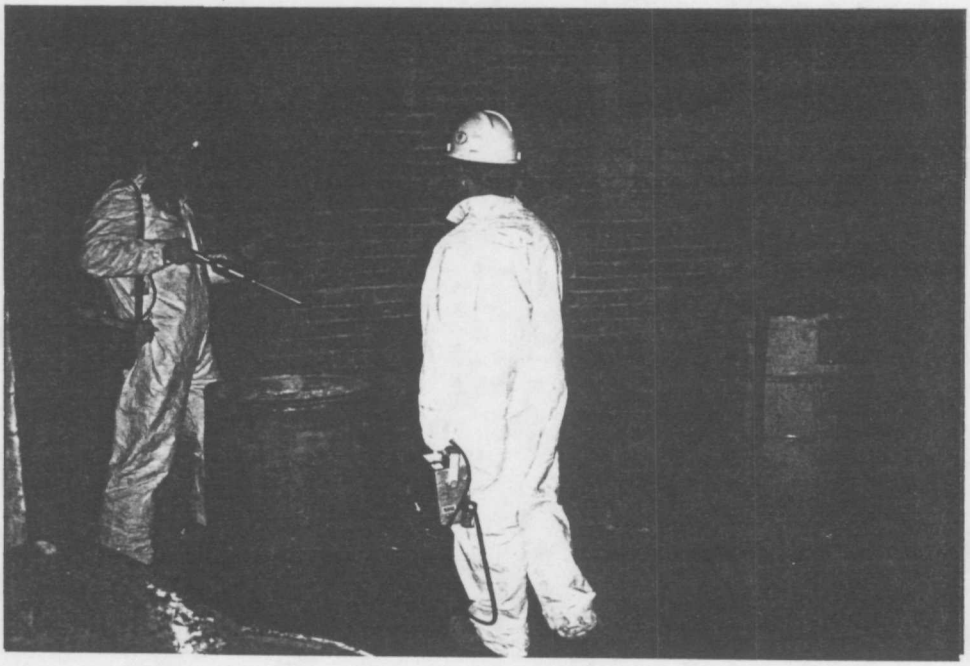
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SW

6 Roll 166



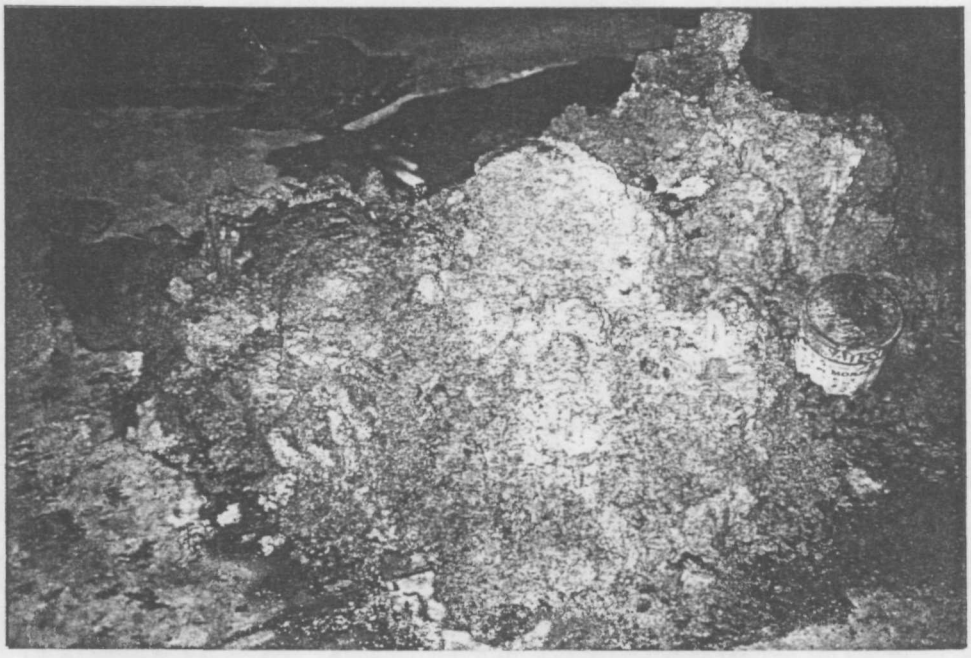
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the NW

7 Roll 166



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NW

8 Roll 166



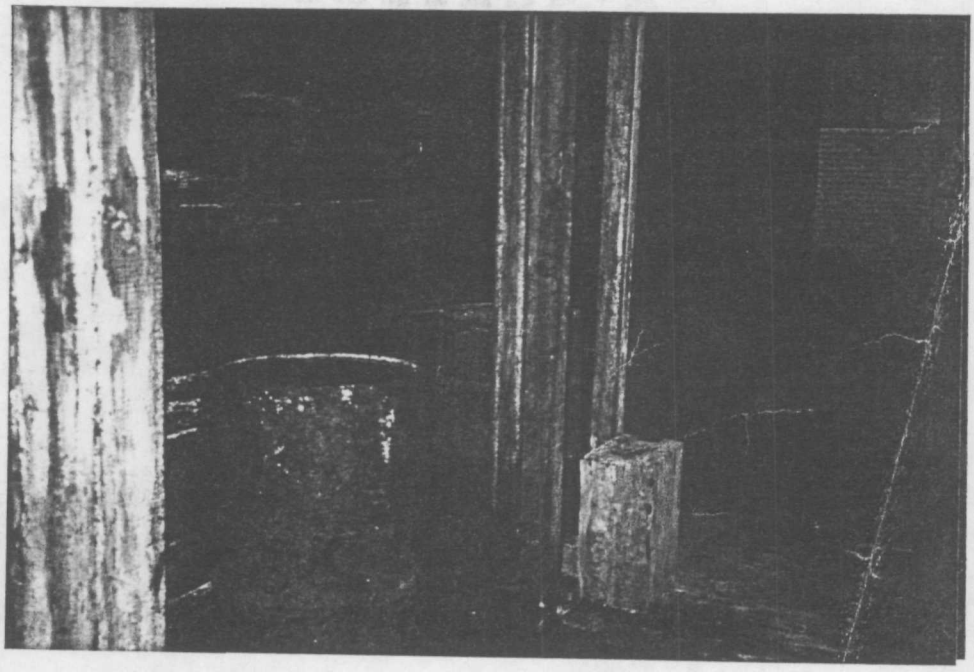
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the SE

9 Roll 166

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

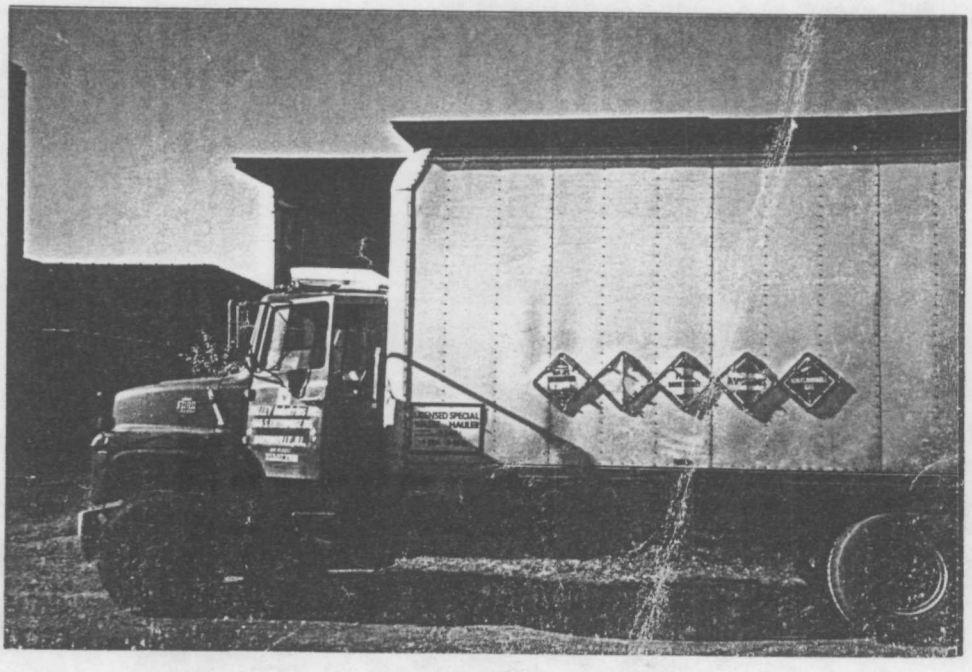
Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the SE

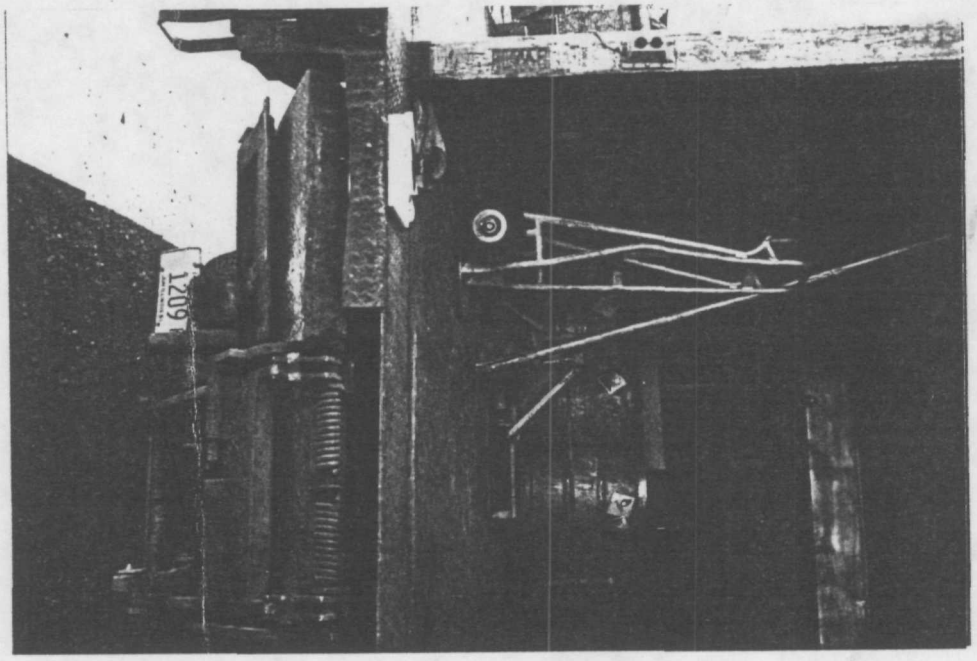
10 Roll 166



Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the W-SW

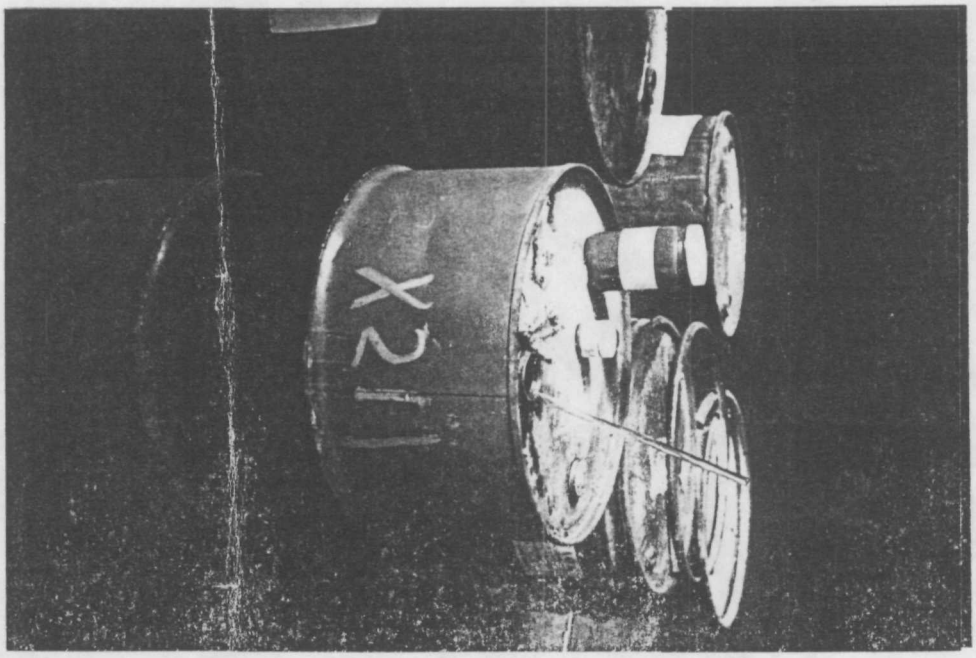
11 Roll 166





Date: November 14, 1990
Time: 8:45 a.m.-11:30 a.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the S-SE

0 Roll 167



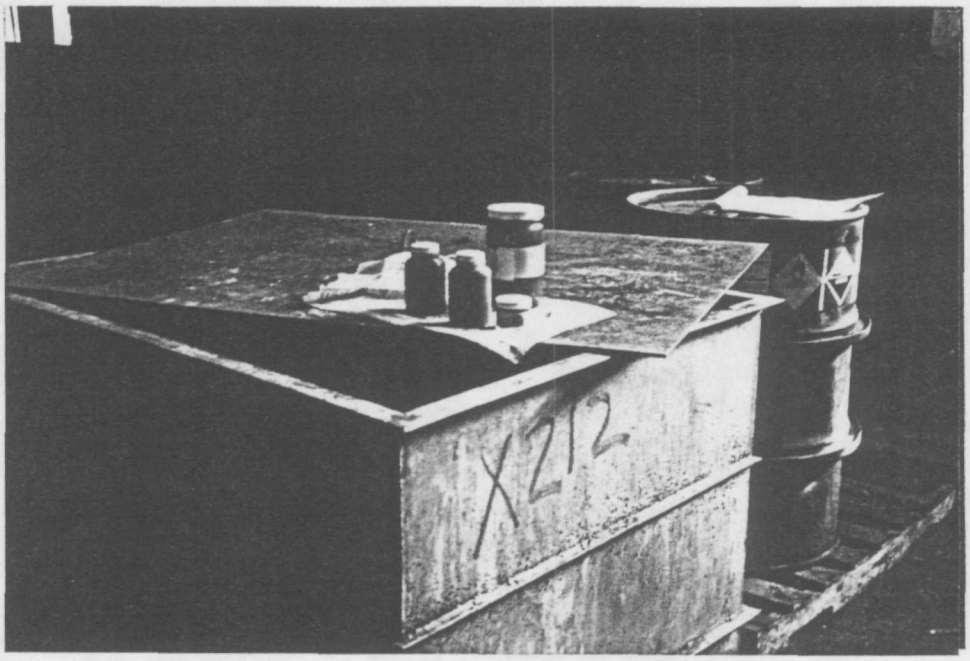
Date: November 14, 1990
Time: 1:21 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the N-NW

1 Roll 167

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

Date: November 14, 1990
Time: 1:33 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the SE

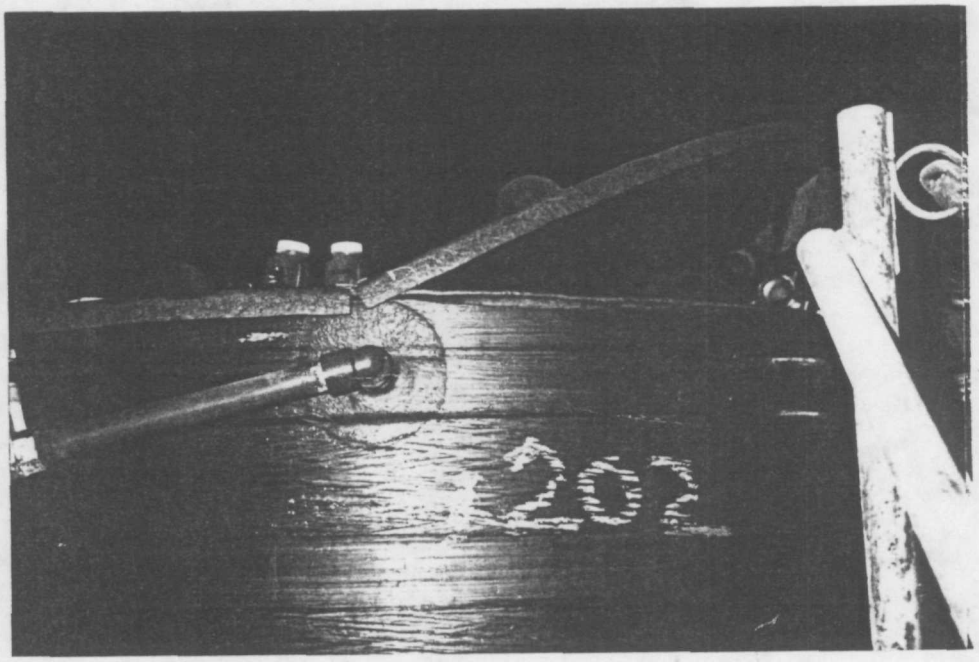
2 Roll 167



Date: November 14, 1990
Time: 1:41 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NE

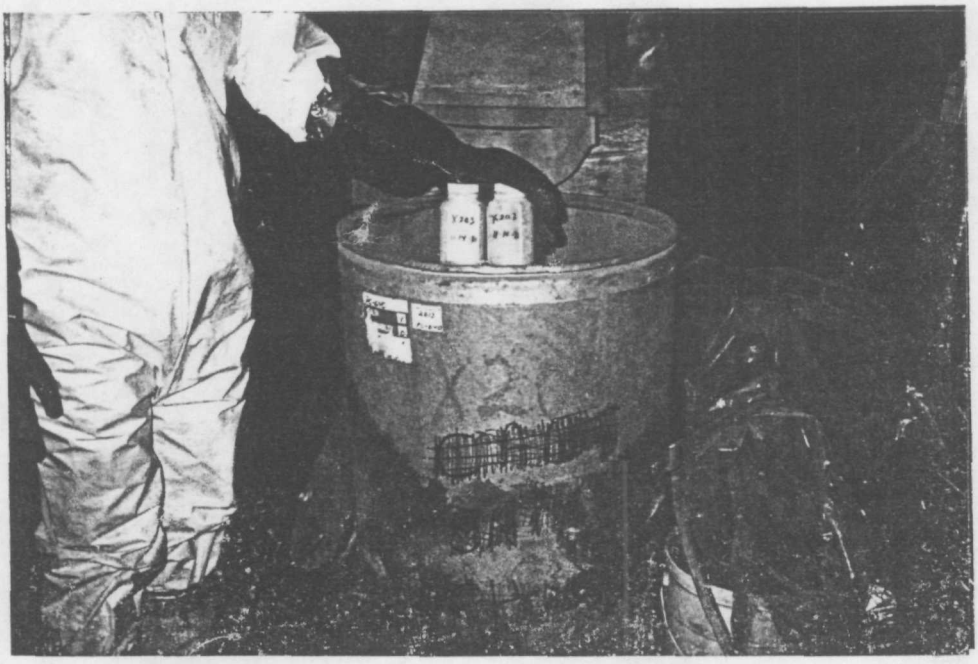
3 Roll 167

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 1:50 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the S

4 Roll 167



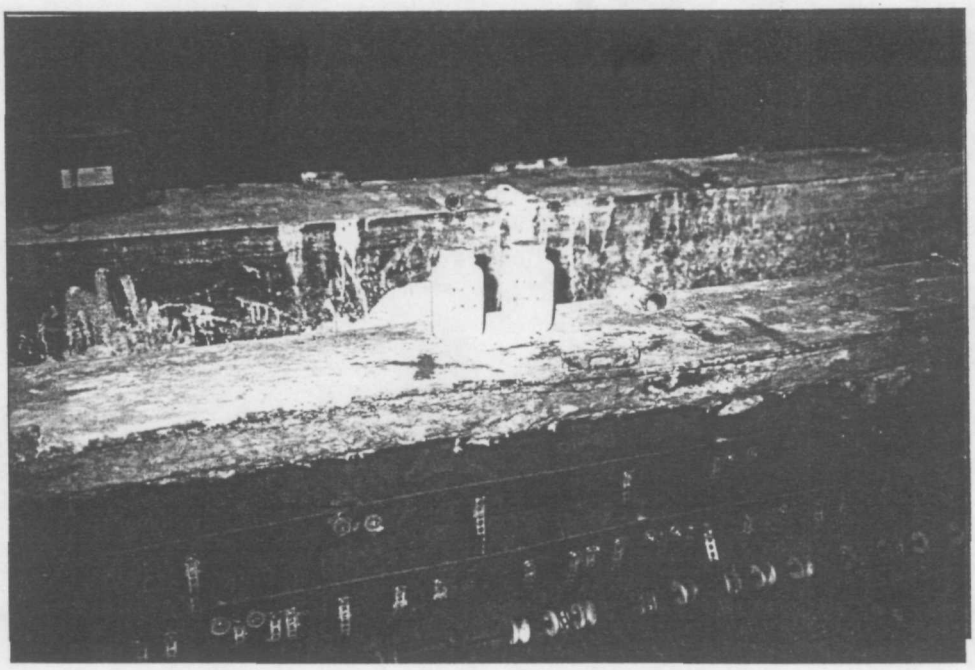
Date: November 14, 1990
Time: 1:56 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SE

5 Roll 167

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

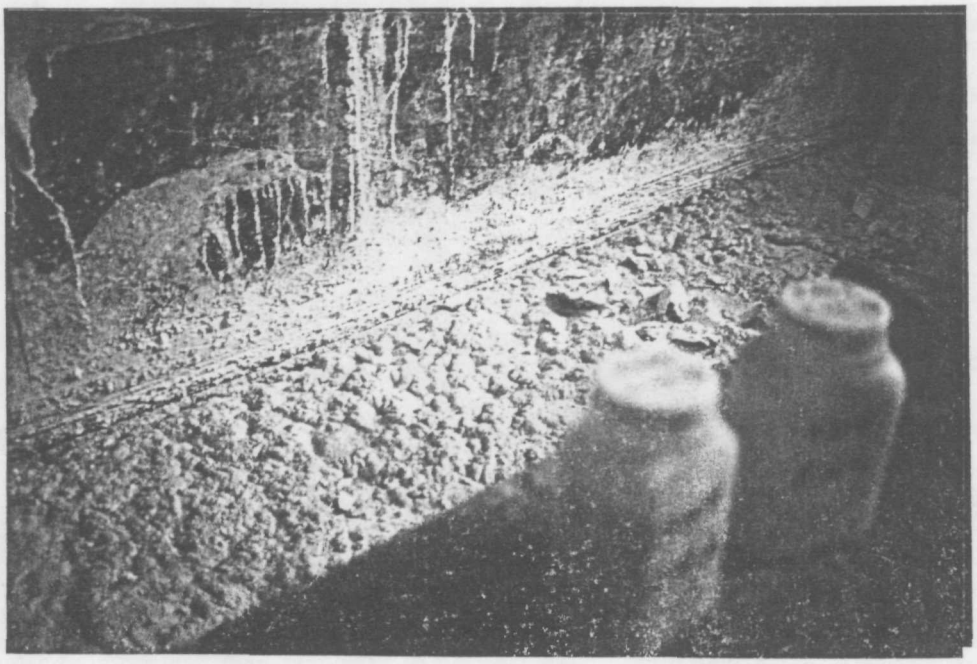
Date: November 14, 1990
Time: 2:00 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the SE

6 Roll 167

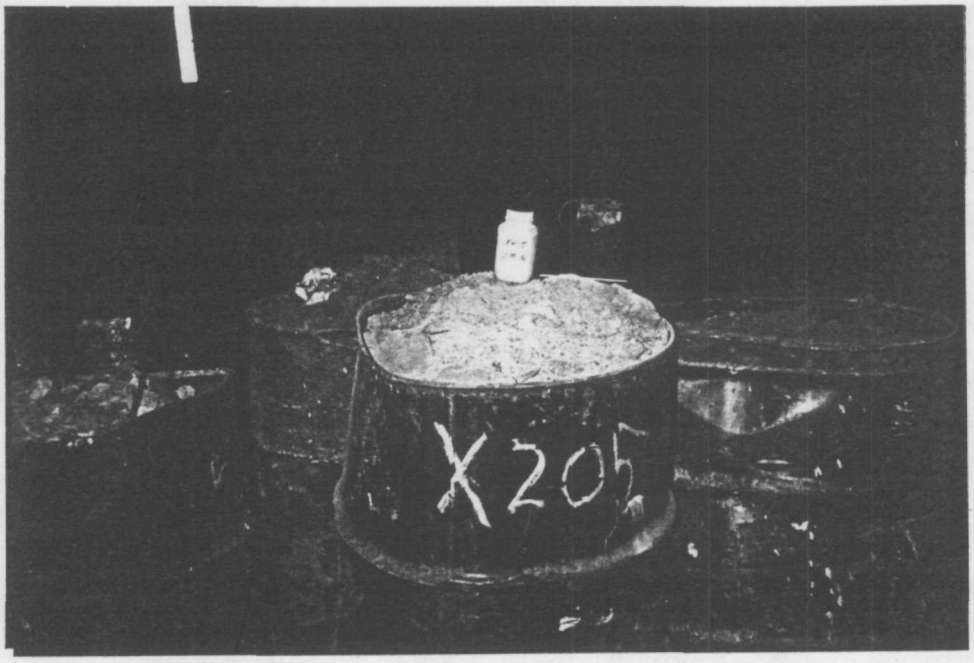


Date: November 14, 1990
Time: 2:00 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the SE

7 Roll 167

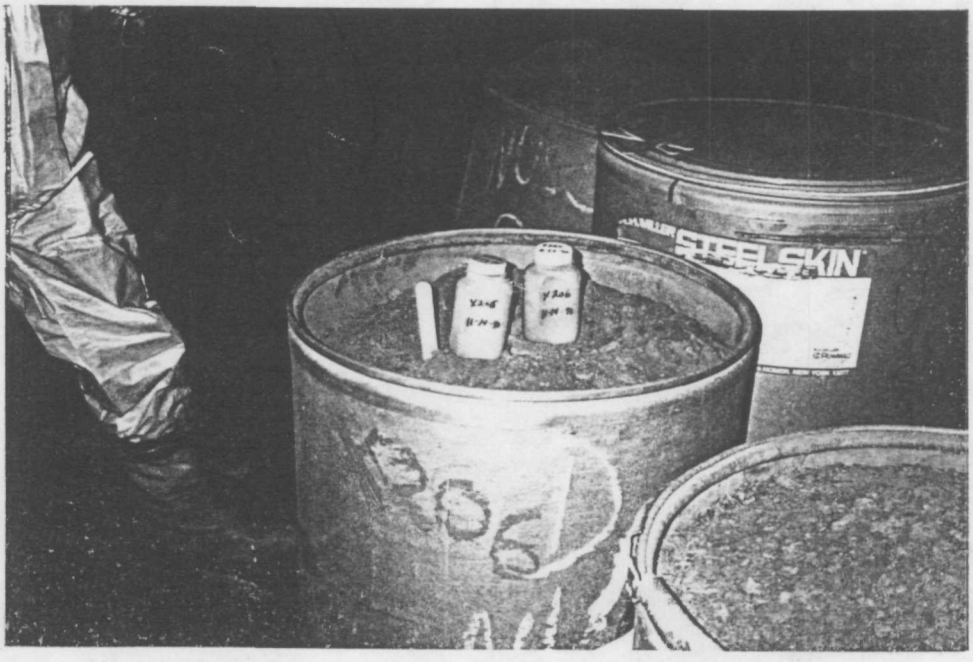


IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 2:33 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NW

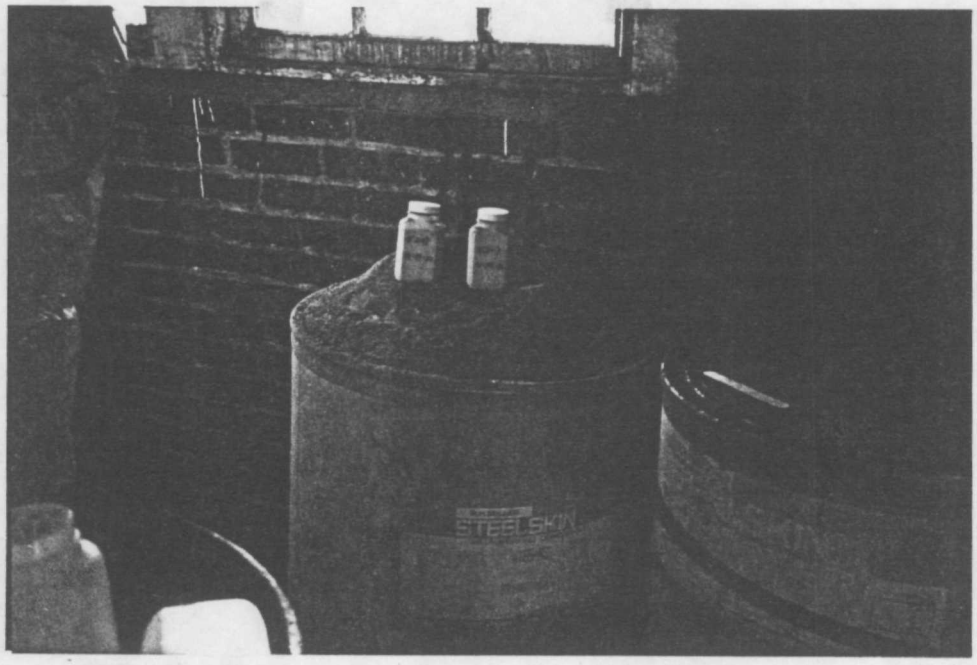
8 Roll 167



Date: November 14, 1990
Time: 2:37 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel
Inc.
Photograph taken
towards the NW

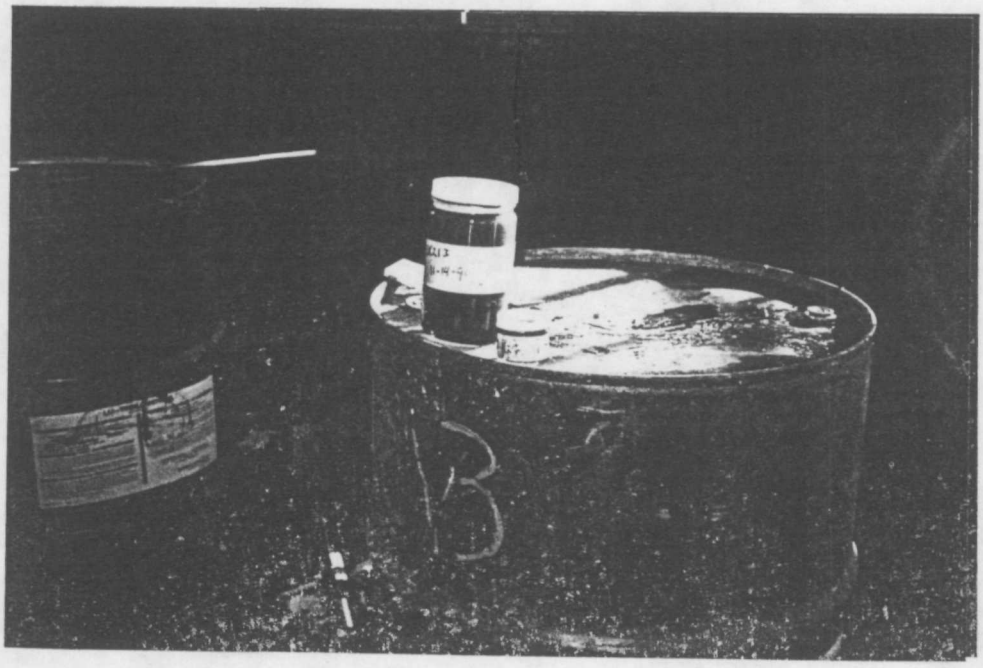
9 Roll 167

IEPA-DLPC Photographs LPC# 1250205005 11-14-90



Date: November 14, 1990
Time: 2:51 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SW

10 Roll 167



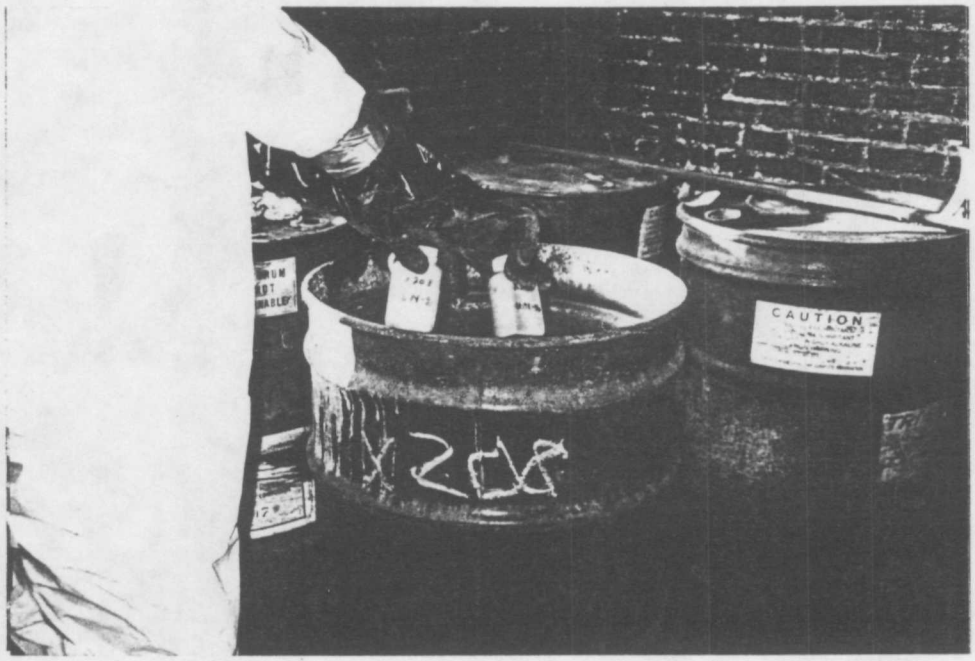
Date: November 14, 1990
Time: 2:59 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the SW

11 Roll 167

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

Date: November 14, 1990
Time: 3:14 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the NW

0 Roll 168



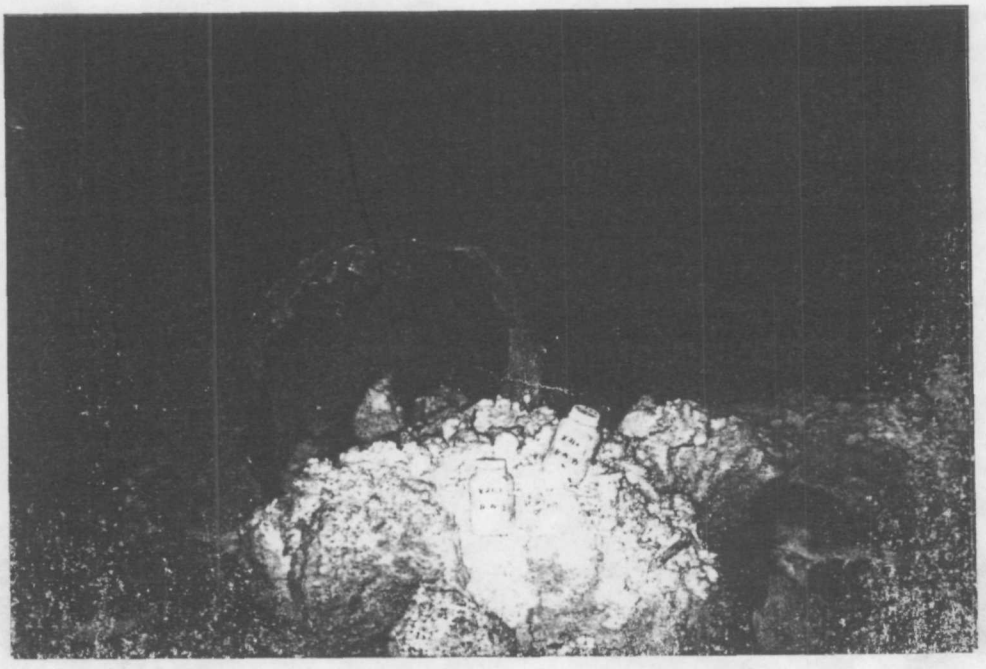
Date: November 14, 1990
Time: 3:21 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the W-SW

1 Roll 168

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

Date: November 14, 1990
Time: 4:00 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the NW

2 Roll 168



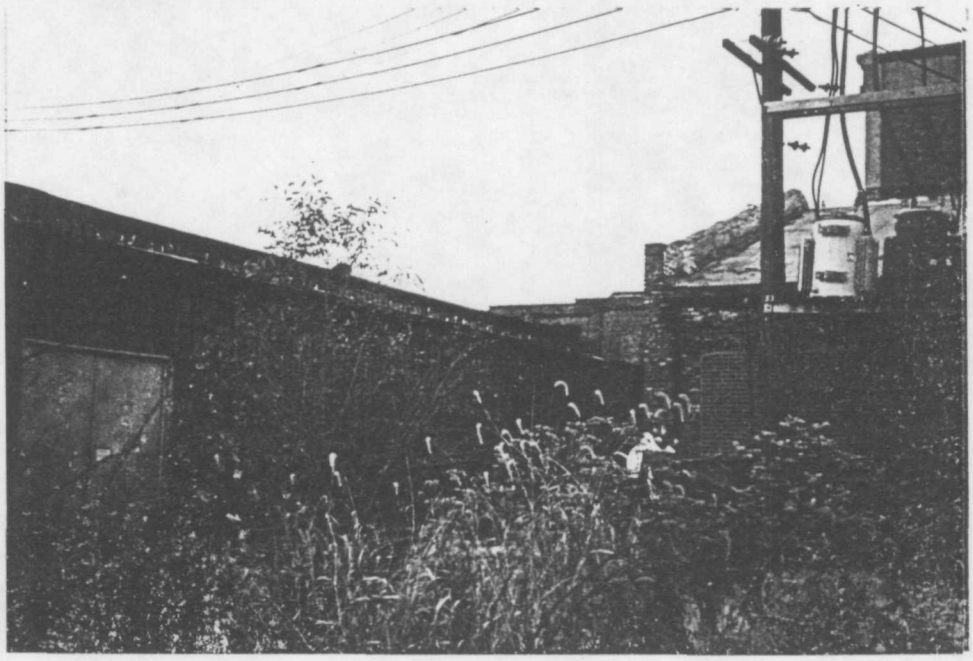
Date: November 14, 1990
Time: 4:11 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the N-NE

3 Roll 168

IEPA-DLPC Photographs LPC# 1250205005 11-14-90

Date: November 14, 1990
Time: 4:27 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the E-SE

4 Roll 168



Date: November 14, 1990
Time: 4:50 p.m.
Photograph By:
Steven C. Townsend
Location:
LPC# 1250205005
Mason County
Havana/Prairieland Steel Inc.
Photograph taken towards the NW

5 Roll 168

Reference Number 3

Illinois Environmental Protection Agency
Division of Land Pollution Control

INSPECTION REPORT

USEPA #: IL D000822949 | IEPA #: 1250205005

Facility Name: Prairieland Steel | Phone #: (309)-543-2291

Street Address: 550 S Pear | County: Mason

City: Havana | State: IL | Zip: 62644

Region: 4 | Inspection Date: 11/14/90 | From: 8:25 AM To: 3:15 PM

Weather: Clear, Dry & Mild Temperatures

TYPE OF FACILITY

Notified As: Gen-2 | Regulated As: Gen-5

LDF? N HPV? N | 90-Day F/U Required?: YES _____ NO ✓

TYPE OF INSPECTION

Report of same date

RCRA: _____ Sampling: ✓ Citizen Complaint: _____ Closed: _____ Other: _____

Record Review: _____ Follow-Up to Inspection of: _____ Withdrawal: _____

NON-REGULATED STATUS

SQG: _____ Claimed Nonhandler: _____ Other (Specify in Narrative): _____

PART A

Notification Date: 8/18/80, from (initial) or (subsequent) Notification.

Initial Part A Date: 10/10/80 Amended: ___/___/___

Part A Withdrawal requested: ___/___/___ Approved by (US)(IL) EPA: ___/___/___

PART B PERMIT APPLICATION

Part B Permit called by (US)(IL) EPA on: ___/___/___ Permit Due: ___/___/___

Part B Permit Submitted: ___/___/___ Draft Permit Issued: ___/___/___

ENFORCEMENT

N/A

Has firm been referred to: USEPA? _____ IAG? _____ County SA? _____

Date(s) of initial referral: ___/___/___ ___/___/___ ___/___/___

USEPA CACO: ___/___/___ CAFO: ___/___/___ ALJ Decision: ___/___/___

Referral to DOJ by USEPA: ___/___/___ Federal Court Order Issued: ___/___/___

PCB Order Issued: ___/___/___ State Court Order Issued: ___/___/___

TSD FACILITY ACTIVITY SUMMARY

Activity by Process Code	On Part A?	Activity Conducted Prior to 1980?	Was Activity Ever Done?	Closed	Being Done at Time of Insp.?	Exempt per 35 IAC, Sec.	On Annual Report 89	88	87
501	Yes	ukn	Yes	No	Yes	N/A	No	No	No

Sampling Purpose 04

Indicate Program Code LP41

Time Collected: 1:26 P

Date Collected: 11-14-90

D086804

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes X No ____

Lab #

SPECIAL ANALYSIS FORM

Date Received NOV 15 1990

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Prairieland Steel Ti	1250205005

SOURCE OF SAMPLE: (Exact Location) Area A, S. central Part

X212

PHYSICAL OBSERVATIONS, REMARKS: Like X211 except yellow on top & grey

TESTS REQUESTED: V.O.C. Organics - EP tox organics, pH.

D086804

COLLECTED BY: BJ / WEZ

TRANSPORTED BY:

LABORATORY

RECEIVED BY: MSM 9:45AM

DATE COMPLETED:

DATE FORWARDED: 4-22-91

J Hurley

RECEIVED
24 APR 1991
IEPA/DLPC

BJ

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D086804
SAMPLING POINT DESC. : HAVANA/PRAIRIELAND STEEL X212

SUBMITTING SOURCE # : SITE # : 125C205005
DATE COLLECTED : 901114 TIME COLLECTED : 1326 SAMPLING PROGRAM :

COLLECTED BY : RJ/WEZ DELIVERED BY : J C
COMMENTS : VOC ORGANICS/EP TCX ORGANICS/PH
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901115 TIME RECEIVED : 0945 RECEIVED BY : MSM
LAB OBSERVATIONS : 1 WM QT & 1-2OZ LIQ TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A39515	TOTAL PCBS	UG/G :	2K
A39333	ALDRIN	UG/G :	.5K
A39383	DIELDRIN	UG/G :	.5K
A39359	TOTAL DDT	UG/G :	.5K
A39328	O,P'-DDE	UG/G :	.5K
A39321	P,P'-DDE	UG/G :	.5K
A39316	O,P'-DDD	UG/G :	.5K
A39311	P,P'-DDD	UG/G :	.5K
A39306	O,P'-DDT	UG/G :	.5K
A39301	P,P'-DDT	UG/G :	.5K
A39351	TOTAL CHLORDANE	UG/G :	.5K
A39064	CHLORDANE,CIS ISOMER	UG/G :	.5K
A39067	CHLORDANE,TRANS ISOMER	UG/G :	.5K
A39393	ENDRIN	UG/G :	.5K
A39481	METHOXYCHLOR	UG/G :	.5K
A39076	ALPHA-BHC	UG/G :	.5K
A39343	GAMMA-BHC (LINDANE)	UG/G :	.5K
A39701	HEXACHLOROBENZENE	UG/G :	.5K
A39413	HEPTACHLOR	UG/G :	.5K
A39423	HEPTACHLOR EPOXIDE	UG/G :	.5K
A34694	PHENOL	UG/G :	800K
A34273	BIS(2-CHLOROETHYL)ETHER	UG/G :	800K
A34586	2-CHLOROPHENOL	UG/G :	800K
A34566	1,3-DICHLOROBENZENE	UG/G :	800K
A34571	1,4-DICHLOROBENZENE	UG/G :	800K
A77147	BENZYL ALCOHOL	UG/G :	800K
A34536	1,2-DICHLOROBENZENE	UG/G :	800K
A00000	2-METHYLPHENOL	UG/G :	800K
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/G :	800K

MPLE NUMBER : D0868C4

34[illegible]2	BUTYL BENZYL PHTHALATE	UG/G :	800K
34631	3,3'-DICHLOROBENZIDINE	UG/G :	1600K
34526	BENZO(A)ANTHRACENE	UG/G :	800K
34320	CHRYSENE	UG/G :	800K
39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/G :	800K
34596	DI-N-OCTYLPHTHALATE	UG/G :	800K
34230	BENZO(B)FLUORANTHENE	UG/G :	800K
34242	BENZO(K)FLUORANTHENE	UG/G :	800K
34247	BENZO(A)PYRENE	UG/G :	800K
34403	INDENO(1,2,3-CD)PYRENE	UG/G :	800K
34556	DIBENZO(AH)ANTHRACENE	UG/G :	800K
34521	BENZO(GHI)PERYLENE	UG/G :	800K
34418	CHLOROMETHANE	UG/G :	500K
34413	BROMOMETHANE	UG/G :	500K
39175	VINYL CHLORIDE	UG/G :	500K
34311	CHLOROETHANE	UG/G :	500K
34423	METHYLENE CHLORIDE	UG/G :	250K
81552	ACETONE	UG/G :	500K
34483	TRICHLOROFLUOROMETHANE	UG/G :	250K
77277	BROMOCHLOROMETHANE	UG/G :	250K
7[illegible]1	CARBON DISULFIDE	UG/G :	250K
34501	1,1-DICHLOROETHYLENE	UG/G :	8100
34496	1,1-DICHLOROETHANE	UG/G :	250K
34546	TRANS-1,2-DICHLOROETHYLENE	UG/G :	250K
77093	CIS-1,2-DICHLOROETHYLENE	UG/G :	250K
32106	CHLOROFORM	UG/G :	250K
34531	1,2-DICHLOROETHANE	UG/G :	250K
81595	2-BUTANONE(MEK)	UG/G :	500K
34506	1,1,1-TRICHLOROETHANE	UG/G :	990000
32102	CARBON TETRACHLORIDE	UG/G :	250K
77057	VINYL ACETATE	UG/G :	500K
32101	DICHLOROBROMOMETHANE	UG/G :	250K
34541	1,2-DICHLOROPROPANE	UG/G :	250K
34704	CIS-1,3-DICHLOROPROPENE	UG/G :	250K
39180	TRICHLOROETHYLENE	UG/G :	250K
32105	CHLORODIBROMOMETHANE	UG/G :	250K
34511	1,1,2-TRICHLOROETHANE	UG/G :	250K
78124	BENZENE	UG/G :	250K
34699	TRANS-1,3-DICHLOROPROPENE	UG/G :	250K
34576	2-CHLOROETHYLVINYL ETHER	UG/G :	250K
32104	BROMOFORM	UG/G :	250K
78133	4-METHYL-2-PENTANONE(MIBK)	UG/G :	500K

SAMPLE NUMBER : D086804

A[illegible]000	4-METHYLPHENOL	UG/G :	800K
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/G :	800K
A34396	HEXACHLOROETHANE	UG/G :	800K
A34447	NITROBENZENE	UG/G :	800K
A34408	ISOPHORONE	UG/G :	800K
A34591	2-NITROPHENOL	UG/G :	800K
A34606	2,4-DIMETHYLPHENOL	UG/G :	800K
A77247	BENZOIC ACID	UG/G :	8000K
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/G :	800K
A34601	2,4-DICHLOROPHENOL	UG/G :	800K
A34551	1,2,4-TRICHLOROBENZENE	UG/G :	800K
A34696	NAPHTHALENE	UG/G :	800K
A00000	4-CHLOROANILINE	UG/G :	800K
A34391	HEXACHLOROBUTADIENE	UG/G :	800K
A34452	4-CHLORO-3-METHYLPHENOL	UG/G :	800K
A77416	2-METHYLNAPHTHALENE	UG/G :	800K
A34386	HEXACHLOROCYCLOPENTADIENE	UG/G :	800K
A34621	2,4,6-TRICHLOROPHENOL	UG/G :	800K
A77687	2,4,5-TRICHLOROPHENOL	UG/G :	800K
A34581	2-CHLORONAPHTHALENE	UG/G :	800K
A[illegible]000	2-NITROANILINE	UG/G :	1600K
A34341	DIMETHYLPHTHALATE	UG/G :	800K
A34200	ACENAPHTHYLENE	UG/G :	800K
A34626	2,6-DINITROTOLUENE	UG/G :	800K
A78300	3-NITROANILINE	UG/G :	1600K
A34205	ACENAPHTHENE	UG/G :	800K
A34616	2,4-DINITROPHENOL	UG/G :	1600K
A34646	4-NITROPHENOL	UG/G :	1600K
A81302	DIBENZOFURAN	UG/G :	800K
A34611	2,4-DINITROTOLUENE	UG/G :	800K
A34336	DIETHYLPHTHALATE	UG/G :	800K
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/G :	800K
A34381	FLUORENE	UG/G :	800K
A00000	4-NITROANILINE	UG/G :	1600K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/G :	1600K
A34636	4-BROMOPHENYL PHENYL ETHER	UG/G :	800K
A39700	HEXACHLOROBENZENE	UG/G :	800K
A39032	PENTACHLOROPHENOL	UG/G :	1600K
A34461	PHENANTHRENE	UG/G :	800K
A34220	ANTHRACENE	UG/G :	800K
A[illegible]110	DI-N-BUTYLPHTHALATE	UG/G :	800K
A[illegible]376	FLUORANTHENE	UG/G :	800K
A34469	PYRENE	UG/G :	800K

SAMPLE NUMBER : D086804

A77103	2-HEXANONE(MBK)	UG/G	: 500K
A34475	TETRACHLOROETHYLENE	UG/G	: 250K
A34516	1,1,2,2-TETRACHLOROETHANE	UG/G	: 250K
A78131	TOLUENE	UG/G	: 250K
A34301	CHLOROBENZENE	UG/G	: 250K
A78113	ETHYLBENZENE	UG/G	: 250K
A77128	STYRENE	UG/G	: 250K
A81551	XYLENE	UG/G	: 250K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
P00090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

Sampling Purpose 04

Indicate Program Code LP41

Time Collected: 1:18 pm

Date Collected: 11-14-90

D086803

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes X No ____

Lab #

SPECIAL ANALYSIS FORM

Date Received NOV 15 1990

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE READING:	FILE NUMBER:
Mason	Havana/Prairieland Steel, Inc.	1250206005

SOURCE OF SAMPLE: (Exact Location) Area A S. central pit X211

PHYSICAL OBSERVATIONS, REMARKS: clear liquid over cloudy liquid, 2 phases

TESTS REQUESTED: V.O.C. Organics + EP tox organics, pH.

D086803

COLLECTED BY: WEZ / RS

TRANSPORTED BY:

LABORATORY

RECEIVED BY: 11SM 9:45AM

DATE COMPLETED:

DATE FORWARDED: 4-22-91

J Hurley

RECEIVED
24 APR 1991
IEPA/DLPC

Page ___ of ___

Chicago
Springfield

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 1250205005 County Mason

Federal I.D. No. ILD005229497 Prairieland Steel, Inc.
(Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X211	WJT RCJ	2	11-14-90	1:25 AM/PM
X212	WJT RCJ	2	11-14-90	1:55 AM/PM
X213	WJT RCJ	2	11-14-90	2:37 AM/PM
X215	WJT RCJ	2	11-14-90	4:46 AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature Jim Cole Date 11-14-90 Time 5:05 AM/PM

Sampler(s) Walter Jones Richard C. Johnson

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
Jim E. Cole	11-15-90	9:45 AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature Marilyn Moore Date 11/15/90 Time 9:45 A.M. P.M.

Lab Location Springfield (City)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D086803
SAMPLING POINT DESC. : HAVANA/PRAIRIELAND STEEL X211

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1318 SAMPLING PROGRAM :

COLLECTED BY : WEZ DELIVERED BY : J C
COMMENTS : VOC ORGANICS/EP TOX ORGANICS/PH
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901115 TIME RECEIVED : 0945 RECEIVED BY : MSM
LAB OBSERVATIONS : 1 WM QT & 1-2OZ LIQ TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A39515	TOTAL PCBS	UG/G :	2K
A39333	ALDRIN	UG/G :	.5K
A39383	DIELDRIN	UG/G :	.5K
A39359	TOTAL DDT	UG/G :	.5K
A39328	O,P'-DDE	UG/G :	.5K
A39321	P,P'-DDE	UG/G :	.5K
A39316	O,P'-DDD	UG/G :	.5K
A39311	P,P'-DDD	UG/G :	.5K
A39306	O,P'-DDT	UG/G :	.5K
A39301	P,P'-DDT	UG/G :	.5K
A39351	TOTAL CHLORDANE	UG/G :	.5K
A39004	CHLORDANE,CIS ISOMER	UG/G :	.5K
A39007	CHLORDANE,TRANS ISOMER	UG/G :	.5K
A39393	ENDRIN	UG/G :	.5K
A39481	METHOXYCHLOR	UG/G :	.5K
A39076	ALPHA-BHC	UG/G :	.5K
A39343	GAMMA-BHC (LINDANE)	UG/G :	.5K
A39701	HEXACHLOROBENZENE	UG/G :	.5K
A39413	HEPTACHLOR	UG/G :	.5K
A39423	HEPTACHLOR EPOXIDE	UG/G :	.5K
A34694	PHENOL	UG/G :	800K
A34273	BIS(2-CHLOROETHYL)ETHER	UG/G :	800K
A34586	2-CHLOROPHENOL	UG/G :	800K
A34566	1,3-DICHLOROBENZENE	UG/G :	800K
A34571	1,4-DICHLOROBENZENE	UG/G :	800K
A77147	BENZYL ALCOHOL	UG/G :	800K
A34536	1,2-DICHLOROBENZENE	UG/G :	800K
A00000	2-METHYLPHENOL	UG/G :	800K
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/G :	800K

AMPLE NUMBER : D0862C3

A[illegible]000	4-METHYLPHENOL	UG/G :	800K
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/G :	800K
A34396	HEXACHLOROETHANE	UG/G :	800K
A34447	NITROBENZENE	UG/G :	800K
A34408	ISOPHORONE	UG/G :	800K
A34591	2-NITROPHENOL	UG/G :	800K
A34606	2,4-DIMETHYLPHENOL	UG/G :	800K
A77247	BENZOIC ACID	UG/G :	8000K
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/G :	800K
A34601	2,4-DICHLOROPHENOL	UG/G :	800K
A34551	1,2,4-TRICHLOROBENZENE	UG/G :	800K
A34696	NAPHTHALENE	UG/G :	800K
A00000	4-CHLOROANILINE	UG/G :	800K
A34391	HEXACHLOROBUTADIENE	UG/G :	800K
A34452	4-CHLORO-3-METHYLPHENOL	UG/G :	800K
A77416	2-METHYLNAPHTHALENE	UG/G :	800K
A34386	HEXACHLOROCYCLOPENTADIENE	UG/G :	800K
A34621	2,4,6-TRICHLOROPHENOL	UG/G :	800K
A77687	2,4,5-TRICHLOROPHENOL	UG/G :	800K
A34581	2-CHLORONAPHTHALENE	UG/G :	800K
A[illegible]000	2-NITROANILINE	UG/G :	1600K
A34341	DIMETHYLPHTHALATE	UG/G :	800K
A34200	ACENAPHTHYLENE	UG/G :	800K
A34626	2,6-DINITROTOLUENE	UG/G :	800K
A78300	3-NITROANILINE	UG/G :	1600K
A34205	ACENAPHTHENE	UG/G :	800K
A34616	2,4-DINITROPHENOL	UG/G :	1600K
A34646	4-NITROPHENOL	UG/G :	1600K
A81302	DIBENZOFURAN	UG/G :	800K
A34611	2,4-DINITROTOLUENE	UG/G :	800K
A34336	DIETHYLPHTHALATE	UG/G :	800K
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/G :	800K
A34381	FLUORENE	UG/G :	800K
A00000	4-NITROANILINE	UG/G :	1600K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/G :	1600K
A34036	4-BROMOPHENYL PHENYL ETHER	UG/G :	800K
A39700	HEXACHLOROBENZENE	UG/G :	800K
A39032	PENTACHLOROPHENOL	UG/G :	1600K
A34461	PHENANTHRENE	UG/G :	800K
A34220	ANTHRACENE	UG/G :	800K
A[illegible]9110	DI-N-BUTYLPHTHALATE	UG/G :	800K
A[illegible]4376	FLUORANTHENE	UG/G :	800K
A34469	PYRENE	UG/G :	800K

AMPLE NUMBER : D086803

A[illegible]292	BUTYL BENZYL PHTHALATE	UG/G :	800K
A34631	3,3'-DICHLOROBENZIDINE	UG/G :	1600K
A34526	BENZO(A)ANTHRACENE	UG/G :	800K
A34320	CHRYSENE	UG/G :	800K
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/G :	800K
A34596	DI-N-OCTYLPHTHALATE	UG/G :	800K
A34230	BENZO(B)FLUORANTHENE	UG/G :	800K
A34242	BENZO(K)FLUORANTHENE	UG/G :	800K
A34247	BENZO(A)PYRENE	UG/G :	800K
A34403	INDENO(1,2,3-CD)PYRENE	UG/G :	800K
A34556	DIBENZO(AH)ANTHRACENE	UG/G :	800K
A34521	BENZO(GHI)PERYLENE	UG/G :	800K
A34418	CHLOROMETHANE	UG/G :	50K
A34413	BROMOMETHANE	UG/G :	50K
A39175	VINYL CHLORIDE	UG/G :	50K
A34311	CHLOROETHANE	UG/G :	50K
A34423	METHYLENE CHLORIDE	UG/G :	25K
A81552	ACETONE	UG/G :	50K
A34483	TRICHLOROFLUOROMETHANE	UG/G :	25K
A77277	BROMOCHLOROMETHANE	UG/G :	25K
A[illegible]041	CARBON DISULFIDE	UG/G :	25K
A34501	1,1-DICHLOROETHYLENE	UG/G :	5100
A34496	1,1-DICHLOROETHANE	UG/G :	25K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/G :	25K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/G :	37
A32106	CHLOROFORM	UG/G :	25K
A34531	1,2-DICHLOROETHANE	UG/G :	500
A81595	2-BUTANONE(MEK)	UG/G :	50K
A34506	1,1,1-TRICHLOROETHANE	UG/G :	990000
A32102	CARBON TETRACHLORIDE	UG/G :	25K
A77057	VINYL ACETATE	UG/G :	50K
A32101	DICHLOROBROMOMETHANE	UG/G :	25K
A34541	1,2-DICHLOROPROPANE	UG/G :	25K
A34704	CIS-1,3-DICHLOROPROPENE	UG/G :	25K
A39180	TRICHLOROETHYLENE	UG/G :	210
A32105	CHLORODIBROMOMETHANE	UG/G :	25K
A34511	1,1,2-TRICHLOROETHANE	UG/G :	25K
A78124	BENZENE	UG/G :	25K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/G :	25K
A34576	2-CHLOROETHYLVINYL ETHER	UG/G :	25K
A[illegible]104	BROMOFORM	UG/G :	25K
A78133	4-METHYL-2-PENTANONE(MIBK)	UG/G :	50K

SAMPLE NUMBER : D086803

A81103	2-HEXANONE(MBK)		UG/G :	50K
A34475	TETRACHLOROETHYLENE		UG/G :	25K
A34516	1,1,2,2-TETRACHLOROETHANE		UG/G :	25K
A78131	TOLUENE		UG/G :	25K
A34301	CHLOROBENZENE		UG/G :	25K
A78113	ETHYLBENZENE		UG/G :	25K
A77128	STYRENE		UG/G :	530
A81551	XYLENE		UG/G :	25K
P72019	DEPTH TO WATER	FT :	--	
P71993	ELEV.OF GW SURFACE	FT :	--	
P72008	WELL DEPTH,TOTAL	FT :	--	
P00431	ALKALINITY,TOTAL	MG/L :	--	
P00090	REDOX POTEN.-FIELD	MV :	--	
P00400	PH,FIELD	UNITS :	--	
P00094	COND.(EC)FIELD	UM/CM :	--	
P00010	TEMPERATURE,WATER DEG.C	:	--	

: THE FOLLOWING QUANTITATIONS ARE APPROXIMATE
: OTHER ORGANIC COMPOUNDS UG/G ; 310

Sampling Purpose 0 4

Indicate Program Code 0941

Time Collected: 3:55P

Date Collected: 11-14-90

D086806

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab after Tests Completed: Yes X No ____

Lab #

SPECIAL ANALYSIS FORM

Date Received NOV 15 1990

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE READING:	FILE NUMBER:
Mason	Havana / Pioneer Steel Inc	125220505

SOURCE OF SAMPLE: (Exact Location) X215, Storage Area C

PHYSICAL OBSERVATIONS, REMARKS: dark, honey like thickness

TESTS REQUESTED: V.O.C organics → EP for organics, pH

L086806

COLLECTED BY: WEZ / RCJ TRANSPORTED BY:

LABORATORY

RECEIVED BY: MSM 9:45AM DATE COMPLETED: DATE FORWARDED: 4-22-91 J Hurley

RECEIVED
24 APR 1991
IEPA/DLPC

MPLE NUMBER : D08680

[illegible]000	4-METHYLPHENOL	UG/G :	800K
A34428	N-NITROSO-DI-N-PROPYLAMINE	UG/G :	800K
A34396	HEXACHLOROETHANE	UG/G :	800K
A34447	NITROBENZENE	UG/G :	800K
A34408	ISOPHORONE	UG/G :	800K
A34591	2-NITROPHENOL	UG/G :	800K
A34606	2,4-DIMETHYLPHENOL	UG/G :	800K
A77247	BENZOIC ACID	UG/G :	8000K
A34278	BIS(2-CHLOROETHOXY)METHANE	UG/G :	800K
A34601	2,4-DICHLOROPHENOL	UG/G :	800K
A34551	1,2,4-TRICHLOROBENZENE	UG/G :	800K
A34696	NAPHTHALENE	UG/G :	800K
A00000	4-CHLOROANILINE	UG/G :	800K
A34391	HEXACHLOROBUTADIENE	UG/G :	800K
A34452	4-CHLORO-3-METHYLPHENOL	UG/G :	800K
A77416	2-METHYLNAPHTHALENE	UG/G :	800K
A34386	HEXACHLOROCYCLOPENTADIENE	UG/G :	800K
A34621	2,4,6-TRICHLOROPHENOL	UG/G :	800K
A77687	2,4,5-TRICHLOROPHENOL	UG/G :	800K
A34581	2-CHLORONAPHTHALENE	UG/G :	800K
A[illegible]000	2-NITROANILINE	UG/G :	1600K
A34341	DIMETHYLPHTHALATE	UG/G :	800K
A34200	ACENAPHTHYLENE	UG/G :	800K
A34626	2,6-DINITROTOLUENE	UG/G :	800K
A78300	3-NITROANILINE	UG/G :	1600K
A34205	ACENAPHTHENE	UG/G :	800K
A34616	2,4-DINITROPHENOL	UG/G :	1600K
A34646	4-NITROPHENOL	UG/G :	1600K
A81302	DIBENZOFURAN	UG/G :	800K
A34611	2,4-DINITROTOLUENE	UG/G :	800K
A34336	DIETHYLPHTHALATE	UG/G :	800K
A34641	4-CHLOROPHENYL PHENYL ETHER	UG/G :	800K
A34381	FLUORENE	UG/G :	800K
A00000	4-NITROANILINE	UG/G :	1600K
A00000	4,6-DINITRO-2-METHYLPHENOL	UG/G :	1600K
A34636	4-BROMOPHENYL PHENYL ETHER	UG/G :	800K
A39700	HEXACHLOROBENZENE	UG/G :	800K
A39032	PENTACHLOROPHENOL	UG/G :	1600K
A34461	PHENANTHRENE	UG/G :	800K
A34220	ANTHRACENE	UG/G :	800K
A[illegible]110	DI-N-BUTYLPHTHALATE	UG/G :	800K
A[illegible]376	FLUORANTHENE	UG/G :	800K
A34469	PYRENE	UG/G :	800K

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

'LE NUMBER : D086806
'.PLING POINT DESC. : HAVANA/PRAIRIELAND STEEL X215

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1555 SAMPLING PROGRAM :

COLLECTED BY : WEZ/RCJ DELIVERED BY : J C
COMMENTS : VOC ORGANICS/EP TCX ORGANICS/PH
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901115 TIME RECEIVED : 0945 RECEIVED BY : MSM
LAB OBSERVATIONS : 1 WM QT & 1-2OZ LIQ TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A39515	TOTAL PCBS	UG/G	: 2K
A39333	ALDRIN	UG/G	: .5K
A39383	DIELDRIN	UG/G	: .5K
A39359	TOTAL DDT	UG/G	: .5K
A39328	O,P'-DDE	UG/G	: .5K
A39321	P,P'-DDE	UG/G	: .5K
A39316	O,P'-DDD	UG/G	: .5K
A39311	P,P'-DDD	UG/G	: .5K
A39306	O,P'-DDT	UG/G	: .5K
A39301	P,P'-DDT	UG/G	: .5K
A39351	TOTAL CHLORDANE	UG/G	: .5K
A39064	CHLORDANE,CIS ISOMER	UG/G	: .5K
A39067	CHLORDANE,TRANS ISOMER	UG/G	: .5K
A39395	ENDRIN	UG/G	: .5K
A39481	METHOXYCHLOR	UG/G	: .5K
A39076	ALPHA-BHC	UG/G	: .5K
A39343	GAMMA-BHC (LINDANE)	UG/G	: .5K
A39701	HEXACHLOROBENZENE	UG/G	: .5K
A39413	HEPTACHLOR	UG/G	: .5K
A39423	HEPTACHLOR EPOXIDE	UG/G	: .5K
A34694	PHENOL	UG/G	: 800K
A34273	BIS(2-CHLOROETHYL)ETHER	UG/G	: 800K
A34586	2-CHLOROPHENOL	UG/G	: 800K
A34566	1,3-DICHLOROBENZENE	UG/G	: 800K
A34571	1,4-DICHLOROBENZENE	UG/G	: 800K
A77147	BENZYL ALCOHOL	UG/G	: 800K
A34536	1,2-DICHLOROBENZENE	UG/G	: 800K
A00000	2-METHYLPHENOL	UG/G	: 800K
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/G	: 800K

SAMPLE NUMBER : D086806

A34292	BUTYL BENZYL PHTHALATE	UG/G :	800K
A34631	3,3'-DICHLOROBENZIDINE	UG/G :	1600K
A34526	BENZO(A)ANTHRACENE	UG/G :	800K
A34320	CHRYSENE	UG/G :	800K
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/G :	800K
A34596	DI-N-OCTYLPHTHALATE	UG/G :	800K
A34230	BENZO(B)FLUORANTHENE	UG/G :	800K
A34242	BENZO(K)FLUORANTHENE	UG/G :	800K
A34247	BENZO(A)PYRENE	UG/G :	800K
A34403	INDENO(1,2,3-CD)PYRENE	UG/G :	800K
A34556	DIBENZO(AH)ANTHRACENE	UG/G :	800K
A34521	BENZO(GHI)PERYLENE	UG/G :	800K
A34418	CHLOROMETHANE	UG/G :	50K
A34413	BROMOMETHANE	UG/G :	50K
A39175	VINYL CHLORIDE	UG/G :	50K
A34311	CHLOROETHANE	UG/G :	50K
A34423	METHYLENE CHLORIDE	UG/G :	25K
A81552	ACETONE	UG/G :	50K
A34488	TRICHLOROFLUOROMETHANE	UG/G :	25K
A77277	BROMOCHLOROMETHANE	UG/G :	25K
A77041	CARBON DISULFIDE	UG/G :	25K
A34501	1,1-DICHLOROETHYLENE	UG/G :	25K
A34496	1,1-DICHLOROETHANE	UG/G :	25K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/G :	25K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/G :	25K
A32106	CHLOROFORM	UG/G :	25K
A34531	1,2-DICHLOROETHANE	UG/G :	25K
A81595	2-BUTANONE(MEK)	UG/G :	50K
A34506	1,1,1-TRICHLOROETHANE	UG/G :	220
A32102	CARBON TETRACHLORIDE	UG/G :	25K
A77057	VINYL ACETATE	UG/G :	50K
A32101	DICHLOROBROMOMETHANE	UG/G :	25K
A34541	1,2-DICHLOROPROPANE	UG/G :	25K
A34704	CIS-1,3-DICHLOROPROPENE	UG/G :	25K
A39180	TRICHLOROETHYLENE	UG/G :	25K
A32105	CHLORODIBROMOMETHANE	UG/G :	25K
A34511	1,1,2-TRICHLOROETHANE	UG/G :	25K
A78124	BENZENE	UG/G :	25K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/G :	25K
A34576	2-CHLOROETHYLVINYL ETHER	UG/G :	25K
A32104	BROMOFORM	UG/G :	25K
A78133	4-METHYL-2-PENTANONE(MIBK)	UG/G :	50K

MPLE NUMBER : DO868Co

A77[illegible]3	2-HEXANONE(MBK)		UG/G :	50K
A34475	TETRACHLOROETHYLENE		UG/G :	25K
A34516	1,1,2,2-TETRACHLOROETHANE		UG/G :	25K
A78131	TOLUENE		UG/G :	25K
A34301	CHLOROBENZENE		UG/G :	25K
A78113	ETHYLBENZENE		UG/G :	25K
A77128	STYRENE		UG/G :	25K
A81551	XYLENE		UG/G :	25K
P72019	DEPTH TO WATER	FT :	--	
P71993	ELEV.OF GW SURFACE	FT :	--	
P72008	WELL DEPTH,TOTAL	FT :	--	
P00431	ALKALINITY,TOTAL	MG/L :	--	
P00090	REDOX POTEN.-FIELD	MV :	--	
P00400	PH,FIELD	UNITS :	--	
P00094	COND.(EC)FIELD	UM/CM :	--	
P00010	TEMPERATURE,WATER	DEG.C :	--	

Sampling Purpose 0 4

Indicate Program Code LP41

Time Collected: 2:54 P

Date Collected: 11-14-90

D086805

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES ___ NO ___

Retain Samples in Lab After T... Completed: Y... No ___

Lab #

SPECIAL ANALYSIS FORM

Date Received NOV 15 1990

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Prairieland Steel, Inc.	1250205005

SOURCE OF SAMPLE: (Exact Location) X213 Storage Area B

PHYSICAL OBSERVATIONS, REMARKS: orange liquid

TESTS REQUESTED: V.O.C. organics & EP tox organics, pH

L086805

COLLECTED BY: WEL/RCT TRANSPORTED BY:

LABORATORY

RECEIVED BY: MSM 9:45AM DATE COMPLETED: DATE FORWARDED: 4-22-91

J Hurley

RECEIVED
24 APR 1991
IEPA/DLPC

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D086805
SAMPLING POINT DESC. : HAVANA/PRAIRIELAND STEEL X213

SUBMITTING SOURCE # : SITE # : 12505`205005
DATE COLLECTED : 901114 TIME COLLECTED : 1454 SAMPLING PROGRAM :

COLLECTED BY : WEZ/RCJ DELIVERED BY : J C
COMMENTS : VOC ORGANICS/EP TOX ORGANICS/PH
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901115 TIME RECEIVED : 0945 RECEIVED BY : MSM
LAB OBSERVATIONS : 1 WM GT & 1-2OZ LIQ TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A39515	TOTAL PCBS	UG/G :	2K
A39333	ALDRIN	UG/G :	.5K
A39383	DIELDRIN	UG/G :	.5K
A39359	TOTAL DDT	UG/G :	.5K
A39328	O,P'-DDE	UG/G :	.5K
A39321	P,P'-DDE	UG/G :	.5K
A39316	O,P'-DDD	UG/G :	.5K
A39311	P,P'-DDD	UG/G :	.5K
A39306	O,P'-DDT	UG/G :	.5K
A39301	P,P'-DDT	UG/G :	.5K
A39351	TOTAL CHLORDANE	UG/G :	.5K
A39064	CHLORDANE,CIS ISOMER	UG/G :	.5K
A39067	CHLORDANE,TRANS ISOMER	UG/G :	.5K
A39393	ENDRIN	UG/G :	.5K
A39481	METHOXYCHLOR	UG/G :	.5K
A39076	ALPHA-BHC	UG/G :	.5K
A39343	GAMMA-BHC (LINDANE)	UG/G :	.5K
A39701	HEXACHLOROBENZENE	UG/G :	.5K
A39413	HEPTACHLOR	UG/G :	.5K
A39423	HEPTACHLOR EPOXIDE	UG/G :	.5K
A34694	PHENOL	UG/G :	800K
A34273	BIS(2-CHLOROETHYL)ETHER	UG/G :	800K
A34586	2-CHLOROPHENOL	UG/G :	800K
A34566	1,3-DICHLOROBENZENE	UG/G :	800K
A34571	1,4-DICHLOROBENZENE	UG/G :	800K
A77147	BENZYL ALCOHOL	UG/G :	800K
A34536	1,2-DICHLOROBENZENE	UG/G :	800K
A00000	2-METHYLPHENOL	UG/G :	800K
A34283	BIS(2-CHLOROISOPROPYL)ETHER	UG/G :	800K

F NUMBER : D0868C5

[illegible]000	4-METHYLPHENOL	UG/G :	800K
[illegible]428	N-NITROSO-DI-N-PROPYLAMINE	UG/G :	800K
[illegible]396	HEXACHLOROETHANE	UG/G :	800K
[illegible]447	NITROBENZENE	UG/G :	800K
34408	ISOPHORONE	UG/G :	800K
34591	2-NITROPHENOL	UG/G :	800K
34606	2,4-DIMETHYLPHENOL	UG/G :	800K
77247	BENZOIC ACID	UG/G :	8000K
34278	BIS(2-CHLOROETHOXY)METHANE	UG/G :	800K
34601	2,4-DICHLOROPHENOL	UG/G :	800K
34551	1,2,4-TRICHLOROBENZENE	UG/G :	800K
34696	NAPHTHALENE	UG/G :	800K
00000	4-CHLOROANILINE	UG/G :	800K
34391	HEXACHLOROBUTADIENE	UG/G :	800K
34452	4-CHLORO-3-METHYLPHENOL	UG/G :	800K
77410	2-METHYLNAPHTHALENE	UG/G :	800K
34386	HEXACHLOROCYCLOPENTADIENE	UG/G :	800K
34621	2,4,6-TRICHLOROPHENOL	UG/G :	800K
77687	2,4,5-TRICHLOROPHENOL	UG/G :	800K
34581	2-CHLORONAPHTHALENE	UG/G :	800K
[illegible]000	2-NITROANILINE	UG/G :	1600K
34341	DIMETHYLPHTHALATE	UG/G :	800K
34200	ACENAPHTHYLENE	UG/G :	800K
34620	2,6-DINITROTOLUENE	UG/G :	800K
78300	3-NITROANILINE	UG/G :	1600K
34205	ACENAPHTHENE	UG/G :	800K
34610	2,4-DINITROPHENOL	UG/G :	1600K
34646	4-NITROPHENOL	UG/G :	1600K
81302	DIBENZOFURAN	UG/G :	800K
34611	2,4-DINITROTOLUENE	UG/G :	800K
34336	DIETHYLPHTHALATE	UG/G :	800K
34641	4-CHLOROPHENYL PHENYL ETHER	UG/G :	800K
34381	FLUORENE	UG/G :	800K
00000	4-NITROANILINE	UG/G :	1600K
00000	4,6-DINITRO-2-METHYLPHENOL	UG/G :	1600K
34630	4-BROMOPHENYL PHENYL ETHER	UG/G :	800K
39700	HEXACHLOROBENZENE	UG/G :	800K
39032	PENTACHLOROPHENOL	UG/G :	1600K
34401	PHENANTHRENE	UG/G :	800K
34220	ANTHRACENE	UG/G :	800K
[illegible]9110	DI-N-BUTYLPHTHALATE	UG/G :	800K
[illegible]370	FLUORANTHENE	UG/G :	800K
34469	PYRENE	UG/G :	800K

SDG NUMBER : D086805

A34292	BUTYL BENZYL PHTHALATE	UG/G :	800K
A34631	3,3'-DICHLOROBENZIDINE	UG/G :	1600K
A34526	BENZO(A)ANTHRACENE	UG/G :	800K
A34520	CHRYSENE	UG/G :	800K
A39100	BIS(2-ETHYLHEXYL)PHTHALATE	UG/G :	800K
A34596	DI-N-OCTYLPHTHALATE	UG/G :	800K
A34230	BENZO(B)FLUORANTHENE	UG/G :	800K
A34242	BENZO(K)FLUORANTHENE	UG/G :	800K
A34247	BENZO(A)PYRENE	UG/G :	800K
A34403	INDENO(1,2,3-CD)PYRENE	UG/G :	800K
A34556	DIBENZO(AH)ANTHRACENE	UG/G :	800K
A34521	BENZO(GHI)PERYLENE	UG/G :	800K
A34418	CHLOROMETHANE	UG/G :	840K
A34413	BROMOMETHANE	UG/G :	840K
A39175	VINYL CHLORIDE	UG/G :	840K
A34311	CHLOROETHANE	UG/G :	840K
A34423	METHYLENE CHLORIDE	UG/G :	740
A81552	ACETONE	UG/G :	840K
A34488	TRICHLOROFLUOROMETHANE	UG/G :	420K
A77277	BROMOCHLOROMETHANE	UG/G :	420K
A[illegible]041	CARBON DISULFIDE	UG/G :	420K
A34501	1,1-DICHLOROETHYLENE	UG/G :	6000
A34496	1,1-DICHLOROETHANE	UG/G :	420K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/G :	420K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/G :	420K
A32106	CHLOROFORM	UG/G :	420K
A34531	1,2-DICHLOROETHANE	UG/G :	420K
A81595	2-BUTANONE(MEK)	UG/G :	840K
A34506	1,1,1-TRICHLOROETHANE	UG/G :	880000
A32102	CARBON TETRACHLORIDE	UG/G :	420K
A77057	VINYL ACETATE	UG/G :	840K
A32101	DICHLOROBROMOMETHANE	UG/G :	420K
A34541	1,2-DICHLOROPROPANE	UG/G :	420K
A34704	CIS-1,3-DICHLOROPROPENE	UG/G :	420K
A39180	TRICHLOROETHYLENE	UG/G :	1300
A32105	CHLORODIBROMOMETHANE	UG/G :	420K
A34511	1,1,2-TRICHLOROETHANE	UG/G :	420K
A78124	BENZENE	UG/G :	420K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/G :	420K
A34576	2-CHLOROETHYLVINYL ETHER	UG/G :	420K
A[illegible]104	BROMOFORM	UG/G :	420K
A78133	4-METHYL-2-PENTANONE(MIBK)	UG/G :	960

SAMPLE NUMBER : D086805

A77103	2-HEXANONE(MBK)	UG/G	: 840K
A34475	TETRACHLOROETHYLENE	UG/G	: 800
A34516	1,1,2,2-TETRACHLOROETHANE	UG/G	: 420K
A78131	TOLUENE	UG/G	: 2000
A34301	CHLOROBENZENE	UG/G	: 420K
A78113	ETHYLBENZENE	UG/G	: 420K
A77128	STYRENE	UG/G	: 420K
A81551	XYLENE	UG/G	: 1100
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
P00090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

Page 1 of 2

~~Springfield~~
Chicago

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 1250205005 County Mason

Federal I.D. No. ILD005229497 Prairieland Steel, Inc.
(Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X211	WEZ RCJ	2	11-14-90	1:25 AM/PM
X212	WEZ RCJ	2	11-14-90	1:35 AM/PM
X201	WEZ RCJ	2	11-14-90	1:45 AM/PM
X202	WEZ RCJ	2	11-14-90	1:55 AM/PM
X203	WEZ RCJ	2	11-14-90	2:00 AM/PM
X204	WEZ RCJ	2	11-14-90	2:10 AM/PM
X205	WEZ RCJ	1	11-14-90	2:32 AM/PM
X206	WEZ RCJ	2	11-14-90	2:37 AM/PM
X207	WEZ RCJ	2	11-14-90	2:51 AM/PM
X213	WEZ RCJ	2	11-14-90	2:59 AM/PM

Sealer's Signature [signature] Date 11-14-90 Time 5:05 AM/PM

Sampler(s) [signature] Richard C. Johnson

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
[signature]	11-15-90	8:45 AM/PM	Marilyn Moore	11/15/90	9:45 AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

RECEIVED
27 NOV 1990
IEPA/DLPC

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature [signature] Date 11-16-90 Time 1:00 A.M. P.M.

Lab Location Decatur (City)

IL 532-1147
LPC 141 9/83

120-011

Page 2 of 2

~~Springfield~~ Chicago

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 1150205005 County Mason

Federal I.D. No. ILD005229497 Pearsall Steel, Inc (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X208	WEZ RCJ	2	11-14-90	3:15 AM/PM
X209	WEZ RCJ	2	11-14-90	3:23 AM/PM
X210	WEZ RCJ	2	11-14-90	4:35 AM/PM
X214	WEZ RCJ	2	11-14-90	4:40 AM/PM
X215	WEZ RCJ	2	11-14-90	4:46 AM/PM
X213	WEZ, RCJ	2	11-14-90	1:55 AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature [signature] Date 11-14-90 Time 5:05 AM/PM

Sampler(s) [signature] Richard C. Johnson

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
[signature]	11-15-90	9:45 AM/PM	[signature]	11/15/90	9:45 AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

RECEIVED
27 NOV 1990
IEPA/DLPC

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature [signature] Date 11-16-90 Time 1:00 A.M. P.M.

Lab Location Chicago. (City)

IL 532-1147
LPC 141 9/83

120-011

Sampling Purpose 0 4

Indicate Program Code LPC1

Time Collected: 1:40 PM

Date Collected: 11-14-90

~~B086803~~

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES ___ NO ___

Retain Samples Until After Analysis Completed: Yes ___ No ___

SPECIAL ANALYSIS FORM

Date Received NOV 16 1990, 1:00 PM

C004885

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Prairieland Steel Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X201, Tank

PHYSICAL OBSERVATIONS, REMARKS: [illegible], grey liquid

TESTS REQUESTED: EP Tox metals, pH

~~B086803~~

COLLECTED BY: RS / WE2 TRANSPORTED BY:

LABORATORY

RECEIVED BY: L J Park DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004885

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

LOG NUMBER : C0048865
SAMPLING POINT DESC. : X 207 TANK

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 901114 TIME COLLECTED : 1540 SAMPLING PROGRAM :

COLLECTED BY : RJ/MEZ DELIVERED BY : CMS
COMMENTS :
FUNDING CODE : LP41 AGENCY ROUTING : CO UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901115 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

A10000 PH/SW846 MET	UNITS : 1.8	PH/FINAL TCLP EXTRACT	UNITS : 4.75		
A14400 ARSENIC/ TCLP	MG/L : 0.01K	A14500 BARIUM/ TCLP	MG/L : 0.1K		
A14600 CADMIUM/ TCLP	MG/L : 0.005	A14700 CHROMIUM/ TCLP	MG/L : 27.5		
A15100 LEAD/ TCLP	MG/L : 2247.5	A15300 MERCURY/ TCLP	MG/L : 0.05K		
A15500 SELENIUM/ TCLP	MG/L : 0.01K				

Sampling Purpose 2 4

Indicate Program Code 2641

Time Collected: 1 45 PM

Date Collected: 11-14-90

~~B006804~~

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ___

Retain Samples in Lab After Tests Completed: Yes X ___

Lab # C004886

SPECIAL ANALYSIS FORM

Date Received NOV 16 1990, 10 AM

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE READING:	FILE NUMBER:
Mason	Havana/Prairieland Steel Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X202, tank

PHYSICAL OBSERVATIONS, REMARKS: amber / tan liquid

TESTS REQUESTED: EP tox metals, pH ~~B006804~~

COLLECTED BY: RS/WEZ TRANSPORTED BY:

LABORATORY

RECEIVED BY: L J Barb DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004886

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

LOG NUMBER : C0D4886
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL INC X202

FORMATTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1345 SAMPLING PROGRAM :

COLLECTED BY : RJ/WEZ DELIVERED BY : CMS
COMMENTS : AMBER/TAN LIQUID
HANDLING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVE : LJP
FIELD OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

00000 PH/SW846 MET UNITS : 1.7 PH/FINAL TCLP EXTRACT UNITS : //////
: LIQUID SAMPLE WITH <0.5% SOLIDS : NO EXTRACTION PERFORMED
A14400 ARSENIC/ TCLP MG/L : @HH A14500 BARIUM/ TCLP MG/L : @HH
A14600 CADMIUM/ TCLP MG/L : 0.101 A14700 CHROMIUM/ TCLP MG/L : 881

A15100 LEAD/ TCLP MG/L : 146700 A15300 MERCURY/ TCLP MG/L : 0.05K
A15500 SELENIUM/ TCLP MG/L : 0.01

Sampling Purpose 2 4

Indicate Program Code 1.2 [illegible]

Time Collected: 1 [illegible]

Date Collected: 11-1-90

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES ✓ NO ____

~~D006805~~

Retain Samples in Lab After Tests Completed: Yes ____

Lab #

SPECIAL ANALYSIS FORM

C004887

Date Received NOV 6 1990 [illegible]

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY: Mason

FILE HEADING: Havana/Prangeland Steel Inc

FILE NUMBER: 1250205005

SOURCE OF SAMPLE: (Exact Location) X203, large elevated + furthest north

PHYSICAL OBSERVATIONS, REMARKS: grey solid - chunks + powder

TESTS REQUESTED: EP tox metals, pH

~~D006805~~

COLLECTED BY: RCJ

TRANSPORTED BY:

LABORATORY

RECEIVED BY: R J Barks

DATE COMPLETED:

DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004887

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

[illegible] NUMBER : L064337
[illegible] POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL INC Y203

[illegible] SOURCE # : SITE # : 125[illegible]0005
[illegible] COLLECTED : 901174 TIME COLLECTED : 1343 SAMPLING PROGRAM :

[illegible]-[illegible]-D BY : RCJ DELIVERED BY : CMS
[illegible]NTS : LARGE ELEVATED TANK FURTHEST NORTH
[illegible]PLING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
[illegible] TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

[illegible] RECEIVED : 901176 TIME RECEIVED : 1300 RECEIVED BY : LJP
[illegible] OBSERVATIONS : TRIP BL SAM# :
[illegible]PERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

[illegible]FINAL TCLP EXTRACT UNITS : 8.77 A14400 ARSENIC, TCLP MG/L : 0.01K
[illegible]4500 BARIUM, TCLP MG/L : 0.1K A14600 CADMIUM, TCLP MG/L : 0.005K
A14700 CHROMIUM, TCLP MG/L : 0.01K A15100 LEAD, TCLP MG/L : 3.17
A15300 MERCURY, TCLP MG/L : 0.05K A15500 SELENIUM, TCLP MG/L : 0.01K

Sampling Purpose 2 4

Indicate Program Code: f

Time Collected: 1:30 P

Date Collected: 11-14-90

~~DUPLICATE~~ SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes ____ No ____

Lab #

SPECIAL ANALYSIS FORM

Date Received NOV 16 | 10, 1990

C004088

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE READING:	FILE NUMBER:
Mason	Havana/Prairieland Steel Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X204, tank (old lead pot)

PHYSICAL OBSERVATIONS, REMARKS: white powder

TESTS REQUESTED: EP tox, metals, pH ~~DUC5805~~

COLLECTED BY: WEZ TRANSPORTED BY:

LABORATORY

RECEIVED BY: L J Barb DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004888

[illegible] ENVIRONMENTAL PROTECTION AGENCY

[illegible] : 0004861
[illegible] POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL INC X104

[illegible] SOURCE # : SITE # : 1250205005
[illegible] COLLECTED : 901114 TIME COLLECTED : 1350 SAMPLING PROGRAM :

[illegible] RECEIVED BY : WEI DELIVERED BY : CMS
[illegible] : TANK (OLD LEAD POT)
[illegible] CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
[illegible] TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

PH/FINAL TCLP EXTRACT UNITS : 5.73 A14400 ARSENIC, TCLP MG/L : 0.07
A14500 BARIUM, TCLP MG/L : 0.1K A14600 CADMIUM, TCLP MG/L : 0.005K
A14700 CHROMIUM, TCLP MG/L : 0.01K A15100 LEAD, TCLP MG/L : 0.130
A15500 MERCURY, TCLP MG/L : 0.05K A15500 SELENIUM, TCLP MG/L : 0.02

Sampling Purpose 0 4

Program Code

Time Collected: 2:31

Date Collected: 11-14-90

SW-2 ... PROCEDURES MUS... YES X

... Yes X

Date Received 11/16 ... 1990

CCC4088

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY: Mason

FILE HEADING: Havana/Mason ... Steel II

FILE NUMBER: 3205X05

SOURCE OF SAMPLE: (Exact Location) X205

PHYSICAL OBSERVATIONS, REMARKS: Orangish ... heavy solid

TESTS REQUESTED: EP tox metals, pH

COLLECTED BY: RC

TRANSPORTED BY:

LABORATORY

RECEIVED BY: L J Parks

DATE COMPLETED:

DATE FORWARDED: JAN 17 1991

Jan ... Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
... WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004889

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

[illegible] NUMBER : C0048369
[illegible]LING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL, INC X205

[illegible]MITTING SOURCE # : SITE # : 1250205005
[illegible] COLLECTED : 901114 TIME COLLECTED : 1431 SAMPLING PROGRAM :

[illegible]LECTED BY : RCJ DELIVERED BY : CMS
[illegible]MENTS :
[illegible]NDING CODE : LP41 AGENCY ROUTING : OU UNIT CODE :
[illegible] TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

[illegible]E RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
[illegible] OBSERVATIONS : TRIP BL SAM# :
[illegible]ERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

[illegible]/FINAL TCLP EXTRACT UNITS : 11.80 A14400 ARSENIC, TCLP MG/L : 0.01K
[illegible]4500 BARIUM, TCLP MG/L : 0.1K A14600 CADMIUM, TCLP MG/L : 0.005K
[illegible]4700 CHROMIUM, TCLP MG/L : 0.01K A15100 LEAD, TCLP MG/L : 236.8
[illegible]5500 MERCURY, TCLP MG/L : 0.05K A15500 SELENIUM, TCLP MG/L : 0.01K

Sampling Purpose 0 4

Indicate Program Code LP41

Time Collected: 2:35 P

Date Collected: 11-14-90

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes X No ____

Lab #

SPECIAL ANALYSIS FORM

C004890

Date Received 11-16-90, 1:00 pm

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Primeland Steel Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X206, Storage Area A

PHYSICAL OBSERVATIONS, REMARKS: lt. powder, grey solid.

TESTS REQUESTED: EP tox metals, plt.

COLLECTED BY: RCS

TRANSPORTED BY:

LABORATORY

RECEIVED BY: A J Barb

DATE COMPLETED:

DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004890

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C004890
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL, INC X206

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1435 SAMPLING PROGRAM :

COLLECTED BY : RCJ DELIVERED BY : CMS
COMMENTS : STORAGE AREA A
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

PH,FINAL TCLP EXTRACT	UNITS :	5.74	A14400 ARSENIC, TCLP	MG/L :	0.01K
A14500 BARIUM, TCLP	MG/L :	3HH	A14600 CADMIUM, TCLP	MG/L :	0.005K
A14700 CHROMIUM, TCLP	MG/L :	0.01K	A15100 LEAD, TCLP	MG/L :	5.22
A15300 MERCURY, TCLP	MG/L :	0.05K	A15500 SELENIUM, TCLP	MG/L :	0.01K

Sampling Purpose 0 4

Indicate Program Code LP41

Time Collected: 2:48 P

Date Collected: 11-14-90

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes X No ____

SPECIAL ANALYSIS FORM

C004891

Date received 11-16-90 1:00 pm

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Pearceland Steel Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X207 Storage Area B

PHYSICAL OBSERVATIONS, REMARKS: dusty powder

TESTS REQUESTED: EP tox metals, pH

COLLECTED BY: WES TRANSPORTED BY:

LABORATORY

RECEIVED BY: L J Burks DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004891

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

LOG NUMBER : C0C4897
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL INC X207

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1448 SAMPLING PROGRAM :

COLLECTED BY : WEZ DELIVERED BY : CMS
COMMENTS : STORAGE AREA B
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901115 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWO NOTE : K = LESS THAN VALUE

EM/FINAL TCLP EXTRACT	UNITS : 5.81	A14400 ARSENIC, TCLP	MG/L :	0.01K
A14500 BARIUM, TCLP	MG/L : 8HH	A14600 CADMIUM, TCLP	MG/L :	0.005K
A14700 CHROMIUM, TCLP	MG/L : 0.01K	A15100 LEAD, TCLP	MG/L :	713.00
A15300 MERCURY, TCLP	MG/L : 0.05K	A15500 SELENIUM, TCLP	MG/L :	0.01K

Sampling Purpose 2 4

Indicate Program Code LP41

Time Collected: 3:10 P

Date Collected: 1-17-90

SW-846 ANALYTICAL PROCEDURES MUS
BE FOLLOWED: YES Y NO

Retain Samples in Lab After Tes Completed:
Lab # Yes No

SPECIAL ANALYSIS FORM

C004892

Date Received 1-[illegible]-90 1:00 p.m.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Pearceland Steel, Inc.	125020005

SOURCE OF SAMPLE: (Exact Location) X208

PHYSICAL OBSERVATIONS, REMARKS: Clear dirty liquid over tar sludge

TESTS REQUESTED: EP tox, metals, plt

COLLECTED BY: WEZ/RCJ TRANSPORTED BY:

LABORATORY

RECEIVED BY: RG Burks DATE COMPLETED: DATE FORWARDED: JAN. 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004892

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

LAB CASE NUMBER : C0004892
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL, INC X208

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1510 SAMPLING PROGRAM :

COLLECTED BY : WEZ/RCJ DELIVERED BY : CMS
COMMENTS :
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : 2-PHASE SAMPLE TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

A10000 PH,SW846 MET	UNITS :	9.3	PH,FINAL TCLP EXTRACT	UNITS :	4.98
A14400 ARSENIC, TCLP	MG/L :	0.06	A14500 BARIUM, TCLP	MG/L :	0.1K
A14600 CADMIUM, TCLP	MG/L :	0.005	A14700 CHROMIUM, TCLP	MG/L :	0.090
A15100 LEAD, TCLP	MG/L :	8.24	A15300 MERCURY, TCLP	MG/L :	0.05K
A15500 SELENIUM, TCLP	MG/L :	8HH			

Sampling Purpose 04

Indicate Program Code 1041

Time Collected: 2:15 P

Date Collected: 11-14-90

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes X No ____

Lab #

SPECIAL ANALYSIS FORM

C004893

Date Received 11-16-90 1:10 pm

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Pingeland Steel, Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X209

PHYSICAL OBSERVATIONS, REMARKS: clear liquid

TESTS REQUESTED: EP tox, metals, pH

COLLECTED BY: RCS / WEZ TRANSPORTED BY:

LABORATORY

RECEIVED BY: [signature] DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

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ENVIRONMENTAL PROTECTION AGENCY
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2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004893

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C004895
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL, INC X209

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1518 SAMPLING PROGRAM :

COLLECTED BY : RCJ/WEI DELIVERED BY : CMS
COMMENTS :
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

A10000 PH,SW846 MET : LIQUID SAMPLE WITH <0.5% SOLIDS	UNITS : 10.5		PH,FINAL TCLP EXTRACT : NO EXTRACTION PERFORMED	UNITS :	//////
A14400 ARSENIC, TCLP	MG/L : 0.01K		A14500 BARIUM, TCLP	MG/L :	0.1K
A14600 CADMIUM, TCLP	MG/L : 0.005		A14700 CHROMIUM, TCLP	MG/L :	0.16
A15100 LEAD, TCLP	MG/L : 47.9		A15300 MERCURY, TCLP	MG/L :	0.05K
A15500 SELENIUM, TCLP	MG/L : 0.01K				

Sampling Purpose 0 4

Indicate Program Code LP41

Time Collected: 4:09

Date Collected: 11-14-90

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO ____

Retain Samples in Lab After Tests Completed: Yes X No ____

Lot # SPECIAL ANALYSIS FORM

Date Received 11-16-90, 1:30pm

C004894

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE READING:	FILE NUMBER:
Mason	Havana/Prairieland Steel Inc	1250205005

SOURCE OF SAMPLE: (Exact Location) X210 Storage Area C

PHYSICAL OBSERVATIONS, REMARKS: white granules.

TESTS REQUESTED: EP ~~Tox~~ tox, metals, pH

COLLECTED BY: RCJ TRANSPORTED BY:

LABORATORY

RECEIVED BY: A Sparks DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004894

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C004894
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL INC X210

SUBMITTING SOURCE # : SITE # : 1250205005
DATE COLLECTED : 901114 TIME COLLECTED : 1609 SAMPLING PROGRAM :

COLLECTED BY : RCJ DELIVERED BY : CMS
COMMENTS : STORAGE AREA C
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901110 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWO NOTE : K = LESS THAN VALUE

PH/FINAL TCLP EXTRACT	UNITS : 5.31	A14400 ARSENIC/ TCLP	MG/L : 0.05		
A14500 BARIUM/ TCLP	MG/L : 0.1K	A14600 CADMIUM/ TCLP	MG/L : 0.005K		
A14700 CHROMIUM/ TCLP	MG/L : 0.01K	A15100 LEAD/ TCLP	MG/L : 0.124		
A15300 MERCURY/ TCLP	MG/L : 0.05K	A15500 SELENIUM/ TCLP	MG/L : @HH		

Sampling Purpose ~~4~~

Indicate Program Code L041

Time Collected: [illegible] PM

Date Collected: 11-14-90

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES ___ NO ___

Retain Samples in Lab After [illegible] Completed:

Lab # ___

SPECIAL ANALYSIS FORM

C004895

Date Received: 11/[illegible] 1:00 pm

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY: Mason

FILE HEADING: Havana/Prairieland Steel, Inc.

FILE NUMBER: [illegible]

SOURCE OF SAMPLE: (Exact Location) X212 Area A [illegible] part

PHYSICAL OBSERVATIONS, REMARKS: like X211 except [illegible] on top & grey

TESTS REQUESTED: EP tox metals, pH

COLLECTED BY: RJ/WEZ TRANSPORTED BY:

LABORATORY

RECEIVED BY: A J Park DATE COMPLETED: DATE FORWARDED: FEB. 15. 1991

[illegible signature]

RECEIVED
22 FEB 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
CHICAGO, ILLINOIS 60612

C004895

ILLINOIS ENVIRONMENTAL P OTECTION A GENCY

NUMBER : C004695
SING POINT DESC. : MASON-HAVANA/PRAIRELAND STEEL, INC X212

MAILING SOURCE # : SITE # : 1250205005
E COLLECTED : 901114 TIME COLLECTED : 1[illegible]5 SAMPLING PROGRAM :

LECTED BY : RJ/WEZ DELIVERED BY : CMS
MENTS : AREA A S CENTRAL PART
DING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

E RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
S OBSERVATIONS : 2-PHASE SAMPLE TRIP BL SAMP :
PERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

0000 PH/SW846 MET UNITS : 9.1 PH/FINAL TCLP EXTRACT UNITS : //////
: LIQUID SAMPLE WITH <0.5% SOLIDS : NO EXTRACTION PERFORMED
A14400 ARSENIC/ TCLP MG/L : 0.01K A14500 BARIUM/ TCLP MG/L : 0.1K
A14600 CADMIUM/ TCLP MG/L : 0.160 A14700 CHROMIUM/ TCLP MG/L : 57.2

A15100 LEAD/ TCLP MG/L : 0.160 A15300 MERCURY/ TCLP MG/L : 0.05K
A15500 SELENIUM/ TCLP MG/L : BHH

Sampling Purpose ○ ц

Indicate Program Code [illegible]

Time Collected: [illegible]

Date Collected: [illegible]

SW-846 ANALYTICAL PROCEDURES MUST BE FOLLOWED: YES X NO

Retain Samples in Lab After Tests Completed: Yes ✓

Lab #

SPECIAL ANALYSIS FORM

C004896

Date Received 11-16-90

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

COUNTY:	FILE HEADING:	FILE NUMBER:
Mason	Havana/Prairieland Steel Inc	125020[illegible]

SOURCE OF SAMPLE: (Exact Location) X214, Storage Area C

PHYSICAL OBSERVATIONS, REMARKS: Cream powder

TESTS REQUESTED: EP tox, metals, pH

COLLECTED BY: RJ TRANSPORTED BY:

LABORATORY

RECEIVED BY: R J Park DATE COMPLETED: DATE FORWARDED: JAN 17 1991

James Daugherty

RECEIVED
22 JAN 1991
IEPA/DLPC

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LABORATORIES
2121 WEST TAYLOR STREET
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Db

C004896

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

LAB NUMBER : C0C4896
SAMPLING POINT DESC. : MASON-HAVANA/PRAIRIELAND STEEL INC (21)

SUBMITTING SOURCE # : SITE # : 1230205005
DATE COLLECTED : 901114 TIME COLLECTED : 1625 SAMPLING PROGRAM :

COLLECTED BY : RCJ DELIVERED BY : CMS
COMMENTS : STORAGE AREA C
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPTC SAMPLE PURPOSE CODE : 4 REPORTING INDICATOR :

DATE RECEIVED : 901116 TIME RECEIVED : 1300 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

PH/FINAL TCLP EXTRACT	UNITS : 5.40	A14400 ARSENIC, TCLP	MG/L :	0.01K
A14500 BARIUM, TCLP	MG/L : 0.1K	A14600 CADMIUM, TCLP	MG/L :	0.005K
A14700 CHROMIUM, TCLP	MG/L : 0.054	A15100 LEAD, TCLP	MG/L :	120.6
A15300 MERCURY, TCLP	MG/L : 0.05K	A15500 SELENIUM, TCLP	MG/L :	0.01K

Reference Number 4

County: Mason

Township Code: 22N
Range Code: 09W
Section Codes: 36

2 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

Sws ID	Name	No.	Status	Location	Depth	Type log	drilled
12530370	COMM ED-HAVANA COAL TRANSFER	2	E	12522N09W36	60		
12530370	COMM ED-HAVANA COAL TRANSFER	1	I	12522N09W364D	76		

County: Mason

Township Code: 22N
Range Code: 08W
Section Codes: 19, 20, 28-34

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

County: Mason

Township Code: 21N
Range Code: 08W
Section Codes: 3-10, 16-21, 29, 30

1 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

Sws ID	Name	No.	Status	Location	Depth	Type log	drilled	
12590200	HAVANA	5	I	12521N08W068E	96	D	1974	LUHR BRO

County: Mason

Township Code: 21N
Range Code: 09W
Section Codes: 11-15, 22-27

11 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

Sws ID	Name	No.	Status	Location	Depth	Type log	drilled	I
12542290	IP-HAVANA STATION	4	I	12521N09W11	84			
12542290	IP-HAVANA STATION	2	I	12521N09W112C	83			
12542290	IP-HAVANA STATION	1	I	12521N09W112C	84			
12542290	IP-HAVANA STATION	3	I	12521N09W112C	79			
12595325	SCOTTS MHP	1	I	12521N09W128F	64	-	--	--
12595325	SCOTTS MHP	2	I	12521N09W128F	64	-	--	--
12595325	SCOTTS MHP	7	I	12521N09W128F	43	-	--	--
12595325	SCOTTS MHP	3	I	12521N09W128F	34	-	--	--
12595325	SCOTTS MHP	6	U	12521N09W128F	43	-	--	--
12595325	SCOTTS MHP	5	I	12521N09W128F	43	-	--	--
12595325	SCOTTS MHP	4	I	12521N09W128G	34	-	--	--

County: Mason

Township Code: 22N
Range Code: 09W
Section Codes: 36

3 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REM	US	TY	AQ
22N	09W	36		RUDOLPH NORDHAUSEN (50:1000:-)	GROSCH IRRIGATION	03/25/1988	138227	118	LX	IR	--	UN
22N	09W	36	4D	COMMONWEALTH EDISON CO	ALBRECHT WELL DRILLI	10/03/1982	104768	76	L	IN		
22N	09W	36	4D	COMMONWEALTH EDISON	ALBRECHT WELL DRILL	10/03/1982	104768	76	L	IN	--	UN

County: Mason

Township Code: 22N
Range Code: 08W
Section Codes: 19, 20, 28-34

84 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	RE	US	TY	AQ
22N	08W	19	2D	FRANK VAN ETTEN	ALBRECHT WELL DRILLI	04/16/1982	!102984	63	L	DO		
22N	08W	19	2D	FRANK VAN ETTEN (40:10:1)	ALBRECHT WELL DRILL	04/16/1982	102984	63	LX	DO	--	UN
22N	08W	20	5B	HOWARD TRIMPE	GROSCH IRRIGATION	11/05/1985	!119814	75	L	IR		
22N	08W	20	5B	HOWARD TRIMPE (48:1250:-)	GROSCH IRRIGATION	11/05/1985	119814	75	LX	IR	--	UN
22N	08W	20	7B	DARYL FORNOFF	S DEAN ALBRECHT	02/09/1976	!043670	72	L	IR		
22N	08W	20	7B	DARYL FORNOFF (-:500:3)	ALBRECHT	02/09/1976	043670	72	LX	IR	--	UN
22N	08W	20	7G	JAY NEUBAUER	W S HOFSTETTER	09/12/1970	!009244	72	L	DO		
22N	08W	20	7G	JAY NEUBAUER (48:17:4)	HOFSTETTER	09/12/1970	NF09244	72	LX	DO	--	UN
22N	08W	20	8F	HOLLIS POWERS	G CHADWICK	07/31/1974	!031563	87	L	DO		
22N	08W	20	8F	HOLLIS POWERS (55:12:-)	CHADWICK	07/31/1974	031563	87	LX	DO	--	UN
22N	08W	20	8F	HOLLIS POWERS (50:20:-)	CHADWICK	07/31/1974	081563	85	LX	DO	--	UN
22N	08W	28	2G	ROBERT E NIEDERER EST	BROWN IRRIGATION CO	00/00/1966	!	88	LC	DO		
22N	08W	28	2G	ROBERT E NIEDERER EST(15:500:4	BROWN IRRIGATION CO	00/00/1966		88	LCX	IR	--	UN
22N	08W	28	5C	RAYMOND MARKERT	GROSCH IRRIGATION	11/08/1977	!068045	95	L	IR		
22N	08W	28	5C	RAYMOND MARKERT	GROSCH IRRIGATION	11/08/1977	068045	95	L	IR	--	UN
22N	08W	28	6C	RAYMOND MARKERT	BROWN IRRIGATION CO	00/00/1965	!	92	LC	DO		
22N	08W	28	6C	RAYMOND MARKERT (21:150:4)	BROWN IRRIGATION CO	00/00/1965		92	LCX	IR	--	UN
22N	08W	28	8A	RALPH VANDERVEEN	S D ALBRECHT	03/31/1977	!055761	89	L	IR		
22N	08W	28	8A	RALPH VANDERVEEN (-:800:1)	S D ALBRECHT	03/31/1977	055761	92	LX	IR	--	UN
22N	08W	29		HARRY FORNOFF	BROWN IRRIGATION CO	00/00/1966	!	79	L	DO		
22N	08W	29	2F	HOWARD TRIMPE	GROSCH IRRIGATION	10/31/1983	!109292	86	L	DO		
22N	08W	29	5A	MRS LOUETA HAHN		00/00/0000	!	43	I	DO		
22N	08W	29	5A	MISS LOUEFA HAHN		00/00/1959		43	I	DO	--	UN
22N	08W	29	6B	HARRY FARNOFF		00/00/0000	!	79	C	IR		
22N	08W	29	6B	HARRY FORNOFF (-:400:-)	BROWN IRRIGATION CO	00/00/1966		79	LCX	DO	--	UN
22N	08W	29	8C	HARRY FORNOFF	GROSCH IRRIGATION	11/15/1982	!105497	85	L	IR		
22N	08W	29	8C	HARRY FORNOFF (46:1250:-)	GROSCH IRRIGATION	11/15/1982	105497	85	LX	IR	--	UN
22N	08W	30	2H	FRANKLIN C VAN ETTEN JR	GEO CHADWICK	10/31/1975	!042041	65	L	DO		
22N	08W	30	2H	FRANKLIN G VANETTEN JR(30:10:2	CHADWICK	10/31/1975	042041	65	LX	DO	--	UN
22N	08W	30	5A	PAUL ROAT CONST	HOPSON	04/01/1974	!028599	59	L	DO		
22N	08W	30	5A	PAUL ROAT CONST (50:20:2)	HOPSON	04/01/1974	LOST PERM	59	LX	DO	--	UN
22N	08W	30	5B	NORMA CLARK (51:1000:-)	GROSCH IRRIGATION	01/03/1990	140227	80	LX	IR	--	UN
22N	08W	30	5B	NORMA CLARK	GROSCH IRRIGATION CO	01/03/1990	X140227	80	L	IR	--	UN
22N	08W	31		WHITE BROS		00/00/1921		1170	C	DO	--	--
22N	08W	31		E P WHITE		11/18/1921	!	1170	C	DO		
22N	08W	31	2B	FRED VANDERVEEN	GROSCH IRRIGATION	05/07/1984	!111790	81	L	IR		
22N	08W	31	2B	FRED VANDERVEEN (30:1250:-)	GROSCH IRRIGATION	05/07/1984	111790	81	LX	IR	--	UN
22N	08W	31	3G	HARRY FORNOFF & PAULINE SILTMA	GROSCH IRRIGATION	05/01/1984	!108986	85	L	IR		
22N	08W	31	3G	H FORNOFF & P SILTMAN(38:1250:	GROSCH IRRIGATION	05/01/1984	108986	85	LX	IR	--	UN
22N	08W	31	8D	J H WHITE		00/00/1921	!	1442	LC	DO		
22N	08W	31	8D	J H WHITE--HAHN #1		00/00/1921		1442	LCX	DO	--	BR
22N	08W	31	8D	HAVANA		11/00/1921		1170	C	MU	--	--
22N	08W	31	8G	EUGENE SCHULTZ	HOWARD SPRINGER J &	05/27/1979	!082147	70	L	DO		
22N	08W	31	8G	EUGENE SCHULTZ (-:15:2)	HOWARD SPRINGER J&R	05/27/1979	082147	70	LX	DO	--	UN
22N	08W	32	5B	HAVANA NATL BANK	GROSCH IRRIGATION	01/21/1983	!105985	98	L	IR		

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
22N	08W	32	5B	HAVANA NAT'L BANK (41:1250:-)	GROSCH IRRIGATION	01/21/1983	105985	98	LX	IR	--	UN
22N	08W	32	7D	DOUG & HARRY FORNOFF(42:1000:-	GROSCH IRRIGATION	02/26/1990	140323	88	LX	IR	--	UN
22N	08W	32	7D	DOUG AND HARRY FORNOFF	GROSCH IRRIGATION CO	02/26/1990	X140323	88	L	IR	--	UN
22N	08W	32	8H	HARRY FORNOFF	S DEAN ALBRECHT	03/18/1976	!044667	99	L	DO		
22N	08W	32	8H	HARRY FORNOFF (-:1000:2)	ALBRECHT	03/18/1976	044667	99	LX	IR	--	UN
22N	08W	33		DELBERT BONNETT 1	BROWN IRRIGATION CO	00/00/1964	!	85	L	DO		
22N	08W	33		DELBERT BONNETT 2	BROWN IRRIGATION CO	00/00/1964	!	104	L	DO		
22N	08W	33		DELBERT BONNETT (42:200:4)	BROWN IRRIGATION CO	00/00/1964		85	LX	IR	--	UN
22N	08W	33	2H	MERRILL DIERKER	S D ALBRECHT	08/31/1977	!065643	66	L	DO		
22N	08W	33	2H	MERRILL DIERKER (-:10:1)	S D ALBRECHT	08/31/1977	065643	66	LX	DO	--	UN
22N	08W	33	4E	DELBERT BONNETT	BROWN IRRIGATION CO	00/00/1964	!	104	LC	IR		
22N	08W	33	4E	DELBERT BONNETT #2(42:200:4)	BROWN IRRIGATION CO	00/00/1964		104	LCX	IR	--	UN
22N	08W	33	5A	DON FAWCETT	ALBRECHT WELL DRILLI	12/10/1982	!105826	76	L	DO		
22N	08W	33	5A	DON FAWCETT (35:20:1)	ALBRECHT WELL DRILL	12/10/1982	105826	76	LX	DO	--	UN
22N	08W	33	6A	TONY COOPER	ALBRECHT	12/09/1980	!097327	58	L	DO		
22N	08W	33	6A	TONY COOPER LOT 7	ALBRECHT	12/09/1980	097327	58	LX	DO	--	UN
22N	08W	33	6D	CIMCO LAND TRUST	GROSCH IRRIGATION	05/25/1983	!107139	101	L	IR		
22N	08W	33	6D	CIMCO LAND TRUST (40:1250:-)	GROSCH IRRIGATION	05/25/1983	107139	101	LX	IR	--	UN
22N	08W	33	7A	LARRY LAYTON	GROSCH IRRIGATION	03/15/1990	017020	64	L	DO	--	UN
22N	08W	33	7A	LARRY LAYTON	GROSCH IRRIGATION CO	03/15/1990	X17020	64	L	DO	--	UN
22N	08W	33	7A	GRACE BAPTIST CHURCH	ALBRECHT WELL DRILL	04/22/1985	117327	79	L	NC	--	UN
22N	08W	33	7A	GRACE BAPTIST CHURCH	ALBRECHT WELL DRILLI	04/22/1985	!	79	L	DO		
22N	08W	33	7E	LINDALL & MERRILL DIERKER	S D ALBRECHT	05/27/1977	!061815	110	L	IR		
22N	08W	33	7E	LINDALL & M DIERKER(-:1000:1/2	D ALBRECHT	05/27/1977	061815	110	LX	IR	--	UN
22N	08W	34		MR ROBERT MENDENHALL		00/00/0000	!	72	C	DO		
22N	08W	34		ROBERT MANDENHALL (35:-:-)		00/00/1973		72	CX	DO	--	--
22N	08W	34		ROBERT HAMMETE LOT 29(29:10:1)	CHADWICK	01/05/1976	044019	65	LX	DO	--	UN
22N	08W	34		ROBERT HAMMETE	G W CHADWICK	01/05/1976	!044019	65	L	DO		
22N	08W	34		FRANCES NORMAN	GEO CHADWICK	05/08/1977	!059144	68	L	DO		
22N	08W	34		FRANCES NORMAN LOT 23	CHADWICH	05/08/1977	059144	68	LX	DO	--	UN
22N	08W	34		DON LANMAN(40:10:2) LOT 2	CHADWICK	09/00/1976	050508	75	LX	DO	--	UN
22N	08W	34		DON LANMAN		09/00/1976	!050508	75	L	DO		
22N	08W	34	1C	MABEL EUTENEUER	GROSCH IRRIG CO INC	09/20/1989	140050	100	L	IR	--	UN
22N	08W	34	1C	MABEL EUTENEUER	GROSCH IRRIGATION CO	09/20/1989	X140050	100	L	IR	--	UN
22N	08W	34	2G	MABEL EUTENEUR (44:1250:-)	GROSCH IRRIGATION	10/15/1988	139226	100	LX	IR	--	UN
22N	08W	34	5A	DON BLESSMAN AGENCY	S C HOPSON	11/04/1972	!017153	45	L	DO		
22N	08W	34	5A	DON BLESSMAN AGENCEY(30:15:2)	HOPSON	11/04/1972	NF17153	45	LX	DO	--	UN
22N	08W	34	8A	D & L CUMMINGS	G W CHADWICK	04/12/1974	!028858	65	L	DO		
22N	08W	34	8A	D & L CUMMINGS (45:10:4)	CHADWICK	04/12/1974	028858	65	LX	DO	--	UN

County: Mason

Township Code: 21N
Range Code: 08W
Section Codes: 3-10, 16-21, 29, 30

112 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

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TWN	RNG	SC	FL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
21N	08W	03	2G	DELBERT HACKMAN #1 (14:250:4)	BROWN IRRIGATION CO	00/00/1964		99	LCX	DO	--	UN
21N	08W	03	2G	HACKMAN D	BROWN	00/00/1965		99	LC	DO		UN
21N	08W	04	1D	ROAT J	ALBRECHT	06/11/1982	103605	70	L	IR		UN
21N	08W	04	1D	JERRY ROAT (18:-:-)	ALBRECHT WELL DRILL	06/11/1982	103605	70	LX	IR	--	UN
21N	08W	04	1D	PAUL ROAT (30:20:1)	ALBRECHT WELL DRILL	07/28/1979	088110	58	LX	IR	--	UN
21N	08W	04	1D	ROAT P	ALBRECHT	07/28/1979	088110	58	L	IR		UN
21N	08W	04	1G	SCHILLING R	BROWN	00/00/1966		85	LC	DO		UN
21N	08W	04	1G	RUDY SCHILLING #1 (-:150:-) .	BROWN IRRIGATION CO	00/00/1966		85	LCX	DO	--	UN
21N	08W	04	2D	LARSON A		00/00/1945		22	I	DO	DR	UN
21N	08W	04	2D	ANDREW N LARSON		00/00/1945		22	I	DO	DR	UN
21N	08W	04	3C	LINDSAY A	ALBRECHT	07/18/1981	100571	109	L	IR		UN
21N	08W	04	3C	ANDREW LINDSAY	ALBRECHT	07/18/1981	100571	109	L	IR	--	UN
21N	08W	04	5B	NETELER G(NO FEE)	CHADWICK	10/22/1973	020437	60	LX	DO		UN
21N	08W	04	5B	GERALD NETELER	CHADWICK	10/22/1973	NF20437	60	L	DO	--	UN
21N	08W	04	5H	DENNIS L MILLER (43:20:1)	CHADWICK	04/24/0000	046280	83	LX	DO	--	UN
21N	08W	04	5H	MILLER D	CHADWICK	04/24/1976	046280	83	L	DO		UN
21N	08W	04	5H	RANDY MONROE	CHADWICK	04/29/1977	059143	64	L	DO	--	UN
21N	08W	04	5H	MONROE R	CHADWICK	04/29/1977	059143	64	L	DO		UN
21N	08W	04	5H	BLESSMAN D	CHADWICK	04/29/1977	059142	66	L	DO		UN
21N	08W	04	5H	DON BLESSMAN (32:10:1)	CHADWICK	04/29/1977	059142	66	LX	DO	--	UN
21N	08W	04	5H	DON BLESSMAN #1	CHADWICK	05/28/1977	060767	82	LX	DO	--	UN
21N	08W	04	5H	BLESSMAN D	CJHADWICK	05/28/1977	060767	82	L	DO		UN
21N	08W	04	5H	BLESSMAN D	CHADWICK	06/02/1977	060768	66	L	DO		UN
21N	08W	04	5H	DON BLESSMAN #N2	CHADWICK	06/02/1977	060768	66	LX	DO	--	UN
21N	08W	04	6H	TURPIN C	CHADWICK	08/00/1976	050506	74	L	DO		UN
21N	08W	04	6H	CHARLES TURPIN (40:10:2)	CHADWICK	08/00/1976	050506	74	LX	DO	--	UN
21N	08W	04	8G	BLESSMAN D	CHADWICK	01/00/1978	070545	70	L	DO		UN
21N	08W	04	8G	DON BLESSMAN #N (27:10:8)	CHADWICK	01/00/1978	070545	70	LX	DO	--	UN
21N	08W	04	8G	CAGLE S	CHADWICK	04/08/1976	046279	66	L	DO		UN
21N	08W	04	8G	STEVEN CAGLE (30:15:1)	CHADWICK	04/15/1976	046279	66	LX	DO	--	UN
21N	08W	04	8H	BLESSMAN D	CHADWICK	01/00/1978	070543	68	L	DO		UN
21N	08W	04	8H	DON BLESSMAN S (25:10:8)	CHADWICK	01/00/1978	070543	68	LX	DO	--	UN
21N	08W	04	8H	BLESSMAN D	CHADWICK	01/00/1978	070544	70	L	DO		UN
21N	08W	04	8H	DON BLESSMAN #2 (-:10:8)	CHADWICK	01/00/1978	070544	70	LX	DO	--	UN
21N	08W	04	8H	MICHAELS J	CHADWICK	01/10/1976	044020	86	L	DO		UN
21N	08W	04	8H	JOHN MICHAEL (-:10:1)	CHADWICK	01/10/1976	044020	86	LX	DO	--	UN
21N	08W	05		HAVANA NAT BANK	FAYHEE	00/00/1967		83	L	DO		UN
21N	08W	05		BLESSMAN D LOT 5	CHADWICK	04/25/1977	054141	65	L	DO		UN
21N	08W	05		DON BLESSMAN LOT#5 (28:10:1)	CHADWICK	04/25/1977	059141	65	LX	DO	--	UN
21N	08W	05		SMITH C LOT 2	ALBRECHT	09/06/1979	089523	65	L	DO		UN
21N	08W	05		CHRIS SMITH LOT #2 (42:15:1)	ALBRECHT WELL DRILL	09/06/1979	089523	65	LX	DO	--	UN
21N	08W	05	1D	BURIS J	ALBRECHT	08/28/1981	101052	63	L	DO		UN
21N	08W	05	1D	JOHN BUERIS	ALBRECHT	08/28/1981	101052	63	L	DO	--	UN
21N	08W	05	2B	BLESSMAN T LOT 1	CHADWICK	04/20/1977	059140	66	L	DO		UN
21N	08W	05	2B	DON BLESSMAN LOT #1 (80:10:1)	CHADWICK	04/20/1977	059140	66	LX	DO	--	UN

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
21N	08W	05	3C	WOIWADE R LOT 35	ALBRECHT	08/21/1978	!078938	50	L	DO		UN
21N	08W	05	3C	R WOIWODE#2144 LOT#35(30:-:15)	ALBRECHT	08/21/1978	078938	50	LX	DO	--	UN
21N	08W	05	3D	BLESSMAN D LOT11	ALBRECHT	03/06/1979	!083914	55	L	DO		UN
21N	08W	05	3D	DON BLESSMAN LOT #11	ALBRECHT	03/06/1979	083914	55	LX	DO	--	UN
21N	08W	05	4D	DECKARD R LOT 4	ALBRECHT	07/31/1978	!077909	50	L	DO		UN
21N	08W	05	4D	RICHARD DECKARD #2146 LOT#4	ALBRECHT	07/31/1978	077909	50	LX	DO	--	UN
21N	08W	05	7C	HAVANA NAT BANK		00/00/1967	!	83	C	DO		
21N	08W	05	7C	HAVANA NATL BANK#1(-:1000:-)	FAYHEE & SONS	00/00/1967		83	LCX	IR	--	UN
21N	08W	06		CHICAGO ILL MIDLAND	BOLLINGER	07/00/1949	!	92	L	DO		UN
21N	08W	06	3A	CITY OF HAVANA (TEST WELL)	ALBRECHT WELL DRILL	03/27/1980	093052	135	LCX	MU	--	UN
21N	08W	06	5D	CHICAGO & ILL MIDLAND	BOLLINGER	07/00/1949		92	L	IN	--	UN
21N	08W	06	8A	LEO DAVIS LOT #21	ALBRECHT	04/20/1981	098965	65	L	DO	--	UN
21N	08W	07	4D	NATIONAL STANDARD CO	LAYNE WESTERN	10/10/1979	!088548	98	CL	IN		UN
21N	08W	07	4D	NATL STANDARD CO #2(23:946:8)	CARSON	10/10/1979	088548	98	LCX	IN	--	UN
21N	08W	07	4F	NATIONAL STANDARD CO	LAYNE WESTERN	02/28/1967	!	98	C	IN		
21N	08W	07	4F	NATL STANDARD CO (22:851:8)	LAYNE WESTERN CO	02/28/1967		99	LCX	IN	--	UN
21N	08W	07	7H	CAMP DREIER		00/00/1935	!	75	C	NC		
21N	08W	07	7H	CAMP DREIER D-5		12/00/1935		75	CX	NC	--	--
21N	08W	07	8E	ARTHUR MARYLOU RAY	CHADWICK	04/04/1974	!028859	124	L	DO		UN
21N	08W	07	8E	A & M L RAY LOT#30 (50:10:4)	CHADWICK	04/16/1974	028859	124	LX	DO	--	UN
21N	08W	08	1A	BONNETT INC (45:20:2)	HOPSON	04/11/1977	058315	58	LX	IN	--	UN
21N	08W	08	1A	BONNETT INC	HOPSON	04/11/1979	!058315	58	L	DO		UN
21N	08W	08	1A	BONNETT INC (35:20:2)	HOPSON	04/25/1974	073263	43	LX	IN	--	UN
21N	08W	08	1A	BONNETT INC	HOPSON	04/25/1974	!073263	43	L	DO		UN
21N	08W	08	2B	JONES T		00/00/1967	!	96	C	IR		
21N	08W	08	2B	MR TREVOR JONES		08/00/1967		96	C	IR	--	--
21N	08W	08	8A	E YETTER & D ROST (35:1000:-)	GROSCH IRRIGATION	02/21/1990	140328	104	LX	IR	--	UN
21N	08W	08	8A	EDON YETTER % DAN ROST	GROSCH IRRIGATION CO	02/21/1990	X140328	104	L	IR	--	UN
21N	08W	09	2D	ROAT M	GROSCH	05/24/1983	!106961	104	L	IR		UN
21N	08W	09	2D	MICHAEL ROAT (25:1250:-)	GROSCH IRRIGATION	05/24/1983	106961	104	LX	IR	--	UN
21N	08W	09	3F	E YETTER&D ROAT LOTD(35:1000:-		02/20/1990	016583	105	LX	IR	--	UN
21N	08W	09	3F	ELDON YETTER % DON ROST	GROSCH IRRIGATION CO	02/20/1990	X16583	105	L	IR	--	UN
21N	08W	09	6C	TREVOR JONES(KRUSE IRRIG)	ALBRECHT	06/08/1974	!030355	106	L	IR		UN
21N	08W	09	6C	TREVOR JONES #1403 (30:800:2)	ALBRECHT	06/08/1974	030355	106	LX	IR	--	UN
21N	08W	16	1C	ROAT M	GIBBS	00/00/1965	!	108	LC	DO		UN
21N	08W	16	1C	MARVIN ROAT (20:850:2HR35MIN)	GIBBS WELL DRILLING	03/16/1962		108	LCX	IR	--	UN
21N	08W	17	3B	BERNICE HAHN (35:1250:-)	GROSCH IRRIGATION	10/24/1988	139335	100	LX	IR	--	UN
21N	08W	17	7G	VANDERVEEN F	ALBRECHT	05/12/1977	!059662	93	L	IR		UN
21N	08W	17	7G	FRED VANDERVEEN #1850(-:1000:1	ALBRECHT	05/12/1977	059662	94	LX	IR	--	UN
21N	08W	18	1A	BUSCH L	BROWN	00/00/1966	!	72	LC	DO		UN
21N	08W	18	1A	LOUIS BUSCH JR #1 (-:300:-)	BROWN IRRIGATION CO	00/00/1966		72	LCX	IR	--	UN
21N	08W	19		ALVINA FYRE	FRYE	00/00/1918	!	42	L	DO	DR	UN
21N	08W	19		FRYE A	FRYE	00/00/1918	!	32	L	DO	DR	UN
21N	08W	19		MRS ALVINA FRYE	FRYE	00/00/1918		42	L	DO	DR	--
21N	08W	19		MRS ALVINA FRYE	FRYE	00/00/1918		32	L	DO	DR	--

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
21N	08W	20	1C	LEIDING H	LEIDING	00/00/1953		33	I	DO	DR	UN
21N	08W	20	1C	HERMAN H LEIDING #1	LEIDING	00/00/1953		33	IX	OB	DR	UN
21N	08W	20	8G	HAROLD AND JOHN WALLBAUM	GROSCH IRRIGATION CO	11/17/1989	X140049	110	L	IR	--	UN
21N	08W	21		STELTER J	BROWN	00/00/1965		104	L	DO		UN
21N	08W	21		JULIUS STELTER #3 (-:300:-)	BROWN IRRIGATION CO	00/00/1965		104	LX	DO	--	UN
21N	08W	21	4B	ROAT M	BRWON	00/00/1963		105	LC	DO		UN
21N	08W	21	4B	MARVIN ROAT #2 (-:400:-)	BROWN IRRIGATION CO	00/00/1963		105	LCX	IR	--	UN
21N	08W	21	4F	STELTER L	THIESZEN	00/00/1960		96	I	DO		UN
21N	08W	21	4F	STELTER L	THEISZEN	00/00/1960		110	I	DO		UN
21N	08W	21	4F	LOUIS STELTER B	GUSTAV THIESZEN IRR	00/00/1960		110	IX	IR	--	UN
21N	08W	21	4F	LOUIS STELTER A	THIESZEN	00/00/1960		96	IX	IR	--	--
21N	08W	21	5E	HAHN D	ALBRECHT	02/28/1984	111274	112	L	IR		UN
21N	08W	21	5E	DON HAHN #508 (20:1000:1)	ALBRECHT/HAVANA	02/28/1984	111274	112	LX	IR	--	UN
21N	08W	21	6F	STELTER L	GIBBS	07/11/1962		99	L	DO		UN
21N	08W	21	6F	LOUIS STELTER #3 (13:600:2.5)	GIBBS WELL DRL CO	07/11/1962		99	LX	IR	--	UN
21N	08W	21	8D	KENNETH SPEEKETER	GROSCH IRRIGATION	06/13/1991	020472	75	L	DO	--	UN
21N	08W	21	8G	H & J WALLBAUM (43:1000:-)	GROSCH IRRIGATION	11/17/1989	140049	110	LX	IR	--	UN
21N	08W	30		CRATER P		00/00/1934			L	DO		UN
21N	08W	30		P M CRATER		03/00/1934			L	DO	--	--
21N	08W	30		P M CRATER		03/00/1934			L	DO	--	--
21N	08W	30	8G	FRYE E	BROWN	00/00/1967		87	LC	DO		UN
21N	08W	30	8G	ELMER FRYE #1 (-:300:-)	BROWN IRRIGATION CO	00/00/1967		87	LCX	IR	--	UN

County: Mason

Township Code: 21N
Range Code: 09W
Section Codes: 11-15, 22-27

82 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
21N	09W	11		ILL POWER CO HAVANA ILL C232#1	TICER	03/27/1946		85	LIC	IN	--	UN
21N	09W	11		ILL POWER CO HAV C232(28:410:-	TICER	04/09/1946		85	LX	IN	--	UN
21N	09W	11		ILL POWER CO	LAYNE WESTERN	04/09/1946	!	85	L	CM		UN
21N	09W	11		ILL POWER CO	LAYNE WESTERN	11/00/1946	!	80	L	CM		UN
21N	09W	11		ILL POWER CO HAV C232(26:430:-	TICER	11/00/1946		80	LX	IN	--	UN
21N	09W	11		ILL POWER&LIGHT HAV (40:500:-)	TICER	11/11/1948		83	LX	IN	--	UN
21N	09W	11		ILL POWER CO	LAYNE WESTERN	11/11/1948	!	83	L	CM		UN
21N	09W	11	1D	ST OF ILL DIV OF WATERWAYS	BROWN	00/00/1967	!	62	L	ST		UN
21N	09W	11	1D	ST OF IL DIV WTRWYS(31:300:3)	BROWN IRRIGATION CO	00/00/1967		62	LX	ST	--	UN
21N	09W	11	2C	ILL POWER CO	LINKER	09/25/1974	!033232	83	L	CM		UN
21N	09W	11	2C	ILL POWER CO #5 (36:600:4)	LINKER	09/25/1974	033232	84	LX	IR	--	UN
21N	09W	11	6C	ILL POWER CO	LAYNE WESTERN	03/27/1946	!	84	LIC	CM		UN
21N	09W	12	3F	ANDERSON H	CHADWICK	07/10/1975	!089056	70	L	DO		UN
21N	09W	12	3F	HENRY ANDERSON (32:10:1)	CHADWICK	07/10/1975	089056	70	LX	DO	--	UN
21N	09W	12	8E	IL DEPT OF TRANSPORT(27:35:4)	SAUDER	06/18/1991	020437	61	LX	ST	--	UN
21N	09W	13	2G	STELTER J	GROSCH	04/16/1985	!117097	90	L	IR		UN
21N	09W	13	2G	JIM STELTER (31:1250:-)	GROSCH IRRIGATION	04/16/1985	117097	90	LX	IR	--	UN
21N	09W	13	6D	BONNETT G	BROWN	00/00/1965	!	91	L	DO		UN
21N	09W	13	6D	GERALD BONNETT #2 (13:300:3)		00/00/1965		91	LX	DO	--	UN
21N	09W	14		HHAINLINE HJ LOT 36	CHADWICK	01/04/1975	!035448	80	L	DO		UN
21N	09W	14		RUSTY SCHAD LOT 26 (16:10:2)	CRUMPLER	02/22/1972	NF13626	52	LX	DO	--	UN
21N	09W	14		SCHAN R(NO FEE)LOT 26	CRUMPLER	02/22/1972	!013626	52	LX	DO		UN
21N	09W	14		LOCAL DEVEL LOT 76	CHADWICK	04/00/1976	!046277	78	L	DO		UN
21N	09W	14		LOCAL DEVELOPMENTLOT76(45:10:6	CHADWICK	04/00/1976	046277	78	LX	DO	--	UN
21N	09W	14		HASTINGS T LOT 56	CHADWICK	04/00/1976	!046278	58	L	DO		UN
21N	09W	14		THOMAS HASTINGSJRLOT56(45:20:2	CHADWICK	04/19/1976	046278	58	LX	DO	--	UN
21N	09W	14		JIM HAINLINE LT36(TH)(20:15:3)	CHADWICK	12/23/1960		80	LX	MU	--	UN
21N	09W	14		F QWIGGLE LOT #34 (23:15:4)	CHADWICK	12/23/1974	035447	62	LX	DO	--	UN
21N	09W	14		ZWIGGLE F LOT 34	CHADWICK	12/28/1974	!035447	62	L	DO		UN
21N	09W	14		JIM HAINLINE LOT36 (22:20:8)	CHADWICK	12/30/1974	035448	80	LX	DO	--	UN
21N	09W	14	1B	SPECKMAN F	SPECKMAN	00/00/1952	!	26	I	DO	DR	UN
21N	09W	14	1B	FRED SPECKMAN #15	SPECKMAN	00/00/1952		26	IX	DO	DR	UN
21N	09W	14	1H	MCHARRY T	CHADWICK	05/22/1978	!074312	75	L	DO		UN
21N	09W	14	1H	J W MCHARRY MD (30:10:3)	CHADWICK	05/22/1978	074312	75	LX	DO	--	UN
21N	09W	14	2D	BONNETT G	BROWN	00/00/1967	!	74	LC	IR		UN
21N	09W	14	2D	GERALD BONNETT #3 (14:200:3)	BROWN IRRIGATION CO	00/00/1967		74	LCX	IR	--	UN
21N	09W	14	3D	BONNETT INC	HOPSON	03/21/1977	!054087	44	L	DO		UN
21N	09W	14	3D	BONNETT INC #1 (35:40:2)	HOPSON	03/21/1977	054087	44	LX	DO	--	UN
21N	09W	14	3D	MARK SCHMINK LOT48	CHADWICK	05/19/1977	060769	35	LX	DO	--	UN
21N	09W	14	3D	BONNETT G	HOPSON	07/18/1975	!039410	45	L	DO		UN
21N	09W	14	3D	GERALD BONNETT #1 (40:20:2)	HOPSON	07/18/1975	039410	45	LX	DO	--	UN
21N	09W	14	3D	SCHMINK M LOT 48	CHADWICK	10/15/1977	!060769	38	L	DO	SP	UN
21N	09W	14	4D	BLESSMAN D LOT 4	ALBRECHT	03/06/1979	!083915	50	L	DO		UN
21N	09W	14	4D	DON BLESSMAN LOT #4	ALBRECHT	03/06/1979	083915	50	LX	DO	--	UN
21N	09W	14	4D	GERALD BONNETT #1 (50:20:2)	HOPSON	03/27/1974	028448	55	LX	DO	--	UN

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
21N	09W	14	4D	BONNETT G	DOPSON	03/27/1974	!028448	55	L	DO		UN
21N	09W	14	4D	HEAVER H	ALBRECHT	06/16/1978	!075948	54	L	DO		UN
21N	09W	14	4D	HAROLD HEAVOR #2148 (-:30:-)	ALBRECHT	06/16/1978	075948	54	LX	DO	--	UN
21N	09W	14	4D	LUDWIG J LOT 38	ALBRECHT	08/28/1979	!088108	57	L	DO		UN
21N	09W	14	4D	JAMES LUDWIG LOT#38(30:15:1)	ALBRECHT WELL DRILL	08/28/1979	088108	57	LX	DO	--	UN
21N	09W	14	4E	WILBUR BROWNFIELD	GROSCH	06/23/1989	X12440	59	L	DO	--	UN
21N	09W	14	4E	WILBUR BROWNFIELD	GROSCH IRRIGATION	06/23/1989	012440	59	L	DO	--	UN
21N	09W	14	4E	BONNETT G	HOPSON	07/18/1975	!039409	51	L	DO		UN
21N	09W	14	4E	G BONNETT #4 (40:50:2)	HOPSON	07/18/1975	039409	51	LX	DO	--	UN
21N	09W	14	4F	JOHN WATSON #1 LOT25 (30:20:2)	HOPSON	10/30/1972	NF16892	48	LX	DO	--	UN
21N	09W	14	4F	WATSON J LOT 25(NO FEE)	HOPSON	10/30/1972	!016892	48	LX	DO		UN
21N	09W	14	4F	STIGALL JLOT 14(NOFEE)	HOPSON	11/02/1972	!016893	56	LX	DO		UN
21N	09W	14	4F	JOHN STIGALL #1 LOT14 (50:10:2	HOPSON	11/02/1972	NF16893	56	LX	DO	--	UN
21N	09W	14	4F	BLESSMAN AGENCYLOT 18(NOFEE)	HOPSON	11/03/1972	!017152	50	LX	DO		UN
21N	09W	14	4F	BLESSMAN AGENCYLOT 35(NOFEE)	HOPSON	11/03/1972	!017151	50	LX	DO		UN
21N	09W	14	4F	DON BLESSMAN AGY#3LT35(35:20:2	HOPSON	11/03/1972	NF17151	50	LX	DO	--	UN
21N	09W	14	4F	D BLESSMAN AGY #4LOT18(35:20:2	HOPSON	11/03/1972	NF17152	50	LX	DO	--	UN
21N	09W	14	5D	STELTER J	HOPSON	03/31/1977	!058314	63	L	DO		UN
21N	09W	14	5D	JEWEL STELTER #1 (50:20:2)	HOPSON	03/31/1977	058314	63	LX	DO	--	UN
21N	09W	14	5E	JOHN STEWART #1 (50:20:2)	HOPSON	04/01/1977	058313	57	LX	DO	--	UN
21N	09W	14	5E	STEWART J	HOPSON	04/01/1977	!058313	57	L	DO		UN
21N	09W	14	5E	BONNETT INC	HOPSON	04/25/1978	!073264	58	L	DO		UN
21N	09W	14	5E	BONNETT INC (40:20:2)	HOPSON	04/25/1978	0732264	58	LX	DO	--	UN
21N	09W	14	5E	HAIMLINE J	CHADWICK	07/18/1975	!039057	68	L	DO		UN
21N	09W	14	5E	JAMES HAINLINE (30:10:1)	CHADWICK	07/18/1975	039057	68	LX	DO	--	UN
21N	09W	24		BONNETT G	BROWN	00/00/1965	!	93	L	DO		UN
21N	09W	24		RAYMOND MASTEN #1 (9:400:3)	BROWN IRRIGATION CO	00/00/1966		87	LCX	DO	--	UN
21N	09W	24	1H	BONNETT TURKEY HATY (25:20:1)	ALBRECHT WELL DRILL	07/11/1979	087310	40	LX	DO	--	UN
21N	09W	24	1H	BONNETT TURKEY HATCH	ALBRECHT	__/__/1___	!087310	40	L	DO		UN
21N	09W	24	3H	BONNETT G	BROWN	00/00/1965	!	93	LC	DO		UN
21N	09W	24	3H	GERALD BONNETT #1 (19:300:3)	BROWN IRRIGATION CO	00/00/1965		93	LCX	IR	--	UN
21N	09W	24	5G	MASTEN R	BROWN	00/00/1966	!	87	LC	DO		UN
21N	09W	26	2G	VANDERVEEN W	GROSCH	11/24/1980	!095957	94	L	IR		UN
21N	09W	26	2G	WAYNE VANDERVEEN (57:1200:-)	GROSCH IRRIG	11/24/1980	095957	94	LX	IR	--	UN
21N	09W	27	5C	RICHARD VANDERVEEN (50:1000:-)	GROSCH IRRIGATION	06/13/1991	020477	98	L	IR	--	UN
21N	09W	27	5C	VERA VANDERVEEN (60:1250:-)	GROSCH IRRIGATION	06/14/1988	139082	99	LX	IR	--	UN
21N	09W	27	5C	VANDERVEEN V	GROSCH	06/14/1988	!139082	99	L	IR		UN

County: Fulton

Township Code: 03N
Range Code: 03E
Section Codes: 1, 2, 11, 12

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

County: Fulton

Township Code: 03N
Range Code: 04E
Section Codes: 6

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

County: Fulton

Township Code: 04E
Range Code: 7-9
Section Codes: 16-20, 29-32

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

County: Fulton

Township Code: 04N
Range Code: 04E
Section Codes: 7-9, 16-20, 29-32

2 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
04N	04E	16	2H	NORRIS FARMS	S D ALBRECHT	02/28/1978	071171	38	L	DO	~~	~~
04N	04E	31	4H	J LUDWIG	ALBRECHTS	03/15/1981	098136	44	L	DO	~~	~~

County: Fulton

Township Code: 04N
Range Code: 03E
Section Codes: 13, 14, 23-26, 35, 36

2 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-9043
Publication: Please cite the Illinois State Water Survey's Private-Well Database in all publications based wholly or partially on this information.

Please Note:

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, chemical analysis reports, well sealing forms, well inventory forms from the 1930-1934 well survey, and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been verified.

TWN	RNG	SC	PL	OWNER	DRILLER	DATE	PERMIT	DPTH	REC	US	TY	AQ
04N	03E	13	BC	S DAMANES	GROSCH IRRIGATION	09/24/1987	135224	58	L	IR	~~	~~
04N	03E	23		NITTLER FARM	J B BUSHNELL	11/00/1956		72	L	DO	~~	~~

County: Fulton

Township Code: 03N
Range Code: 03E
Section Codes: 1, 2, 11, 12

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

County: Fulton

Township Code: 03N
Range Code: 04E
Section Codes: 6

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

County: Fulton

Township Code: 04E
Range Code: 7-9
Section Codes: 16-20, 29-32

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223

Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

County: Fulton

Township Code: 04N
Range Code: 04E
Section Codes: 7-9, 16-20, 29-32

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

County: Fulton

Township Code: 04N
Range Code: 03E
Section Codes: 13, 14, 23-26, 35, 36

0 records were found for the specified locations.

Questions : Contact the Illinois State Water Survey's Ground Water Division @ (217)333-7223
Publication: Please cite the Illinois State Water Survey's PICS (Public-Industrial-Commercial) Database in all publications based wholly or partially on this information.

Please Note:

The data in the PICS Database is a listing of municipal and large industrial and commercial wells which are known to the Illinois State Water Survey (ISWS). The information was initially entered from public water supply data and supplemented with the Illinois Water Inventory Project data. This database is updated as additional information is received and verified.

Reference Number 5

PWS ID	COUNTY	PWS NAME	PWS STREET ADDRESS	PWS CITY	PWS ZIP CODE	SURVEY DATE
0033704	125	KNOWLES GARDENS	N E QTR SEC 24	PENNSYLVANIA TWP	62633	0/00/00
0034231		FARMERS ELEVATOR CO OF BIGGS	125 BIGGS	BIGGS		0/00/00
	125				62633	
			125 2			
0033662	125	DISCOUNT SALES CO	R 78	MATANZAS BEACH	62644	0/00/00
0034009		THE IVANHOE TAVERN	125 R 78	MANTANZA BEACH		0/00/00
0034025		KENNYS GARAGE	R 78	MANTANZAS BEACH		0/00/00
0034033		TIP TOP LOUNGE	R 78	MANTANZAS BEACH		0/00/00
0034041		BORTELLS BEACH COTTAGES	R 78	MATANZAS BEACH		0/00/00
0034074		QUIVER LAKE INN	HAVANA (1 MI N)	HAVANA		0/00/00
0034249		AL & AGIES TAVERN 2 MI N HAVAN	QUIVER LAKE SUBDIVISION	HAVANA		0/00/00
0043018		BUZZVILLE TAVERN	BUZZVILLE	QUIVER TWP		0/00/00
0043026		CHATAQUA NATL WILDLIFE OFFICE	N W QTR SEC 10	QUIVER TWP		0/00/00
0043034		HIALEAH CLUB	RR 2	HAVANA		3/07/90
0043281		MASON STATE TREE NURSURY	N W QTR SEC 33	QUIVER TWP		0/00/00
0043349		PINE CAMPGROUND	N E QTR SEC 3	QUIVER TWP		0/00/00
0044461		HAVANA DRIVE-IN THEATER	R 78 S OF HAVANA	HAVANA		0/00/00
0044487		WALKER FORGE INC	BOX 408	HAVANA		3/30/88
0112615		ILLINOIS POWER COMPANY	P O BOX 368	HAVANA		12/03/87
	125				62644	
			125 15			
0004937	125	POPLAR INN	RURAL ROUTE #1	KILBOURNE	62655	2/01/90
0033753		BALYKI MIDDLE SCHOOL	125 CORNER 4TH & POPLAR	KILBOURNE		2/15/90
0033779		BOB'S PARADISE INN	WALNUT ST	KILBOURNE		2/15/90
0033795		D & J'S TAVERN	PO BOX 286	KILBOURNE		2/02/89
0033829		VILLAGE CAFE	PO BOX 296	KILBOURNE		2/15/90

Reference Number 6

Water Resources Data Illinois Water Year 1989

Volume 2. Illinois River Basin

by D.J. Sullivan, P.D. Hayes, T.E. Richards, and J.C. Maurer

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IL-89-2
Prepared in cooperation with the State of Illinois
and with other agencies

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-90/278	2.	3. Recipient's Accession No.

4. Title and Subtitle

Water Resources Data - Illinois, Water Year 1989
Volume 2. Illinois River basin

5. Report Date
April 1990

6.

7. Author(s)
D. J. Sullivan, P. D. Hayes, T. E. Richards, and J. C. Maurer

8. Performing Organization Rept. No.
USGS-WDR-IL-89-2

9. Performing Organization Name and Address

U.S. Geological Survey
Water Resources Division
102 East Main Street, 4th Floor
Urbana, IL 61801

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address
U.S. Geological Survey
Water Resources Division
102 East Main Street, 4th Floor
Urbana, IL 61801

13. Type of Report & Period Covered
Annual - Oct. 1, 1988, to Sept. 30, 1989

14.

15. Supplementary Notes

Prepared in cooperation with the State of Illinois and other agencies

16. Abstract (Limit: 200 words)

The Water Resources Division of the U.S. Geological Survey, in cooperation with State, Federal, and other local governmental agencies, obtains a large amount of data pertaining to the water resources of Illinois each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State.

Water resources data for the 1989 water year for Illinois consist of records of stage, discahrge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains (1) discharge for 82 streamflow-gaging stations and for 13 crest-stage, partial-record streamflow stations; (2) stage for 3 streamflow-gaging stations and for 3 lake stations; (3) water-quality records for 47 streamflow-gaging stations, 1 of which includes sediment discharge, and for 28 ungaged stream sites; and (4) water-level records for 7 observation wells. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous discharge measurements and miscellaneous water-quality analyses.

17. Document Analysis a. Descriptors

*Illinois, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement: No restriction on distribution.
This report may be purchased from
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report)

20. Security Class (This Page)

21. No. of Pages
467

22. Price

(See ANSI-Z39.18) See Instructions on Reverse

OPTIONAL FORM 272 (4-77)
(Formerly NTIS-35)
Department of Commerce

ILLINOIS RIVER BASIN

05570500 ILLINOIS RIVER AT HAVANA, IL

LOCATION.--Lat 40°17'34", long 90°04'07", in NE1/4SW1/4 sec.1, T.21 N., R.9 W., Mason County, Hydrologic Unit 07130003, on left bank 100 ft downstream from U.S. Highway 136 bridge, 0.8 mi downstream from mouth of Spoon River, and at mile 119.6.

DRAINAGE AREA.--18,299 mi^2.

PERIOD OF RECORD.--October 1921 to September 1927, June 1985 to September 1989 (discontinued). Gage-height records collected at same site October 1878 to May 1881, January 1896 to December 1904 are contained in House Document 263, 59th Congress, 1st Session, Des Plaines and Illinois Rivers. January 1907 to March 1917, from Flood-Control Report, Illinois Division of Waterways, 1929; April 1917 to September 1921, October 1928 to September 1961, from report of the National Weather Service; October 1961 to September 1967, in files of U.S. Army Corps of Engineers. Oct. 17, 1984, to June 17, 1985, available in files of Illinois district office.

GAGE.--Water-stage recorder and point-velocity meter. Datum of gage is 424.40 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to 1967, nonrecording gage at same site at datum 0.13 ft lower.

REMARKS.--Records poor. Occasional regulation at low flow by navigation dams at Peoria and La Grange. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal. U.S. Army Corps of Engineers gage-height and velocity satellite telemeter at station.

AVERAGE DISCHARGE.--10 years (water years 1922-27, 1986-89), 19,464 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,600 ft^3/s, Oct. 12, 1926, gage height, 23.4 ft; minimum daily discharge, 4,100 ft^3/s, Sept. 10, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 90,300 ft^3/s, Mar. 9, 1985 (by discharge measurement), gage height, 26.30 ft; maximum gage height, 27.3 ft, May 25, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,000 ft^3/s, Sept. 17; maximum gage height, 15.01 ft Apr. 12; minimum daily discharge, 5,000 ft^3/s, Oct. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6500	e6200	e9000	e12000	e8400	e7400	e12000	e10900	e18000	e7800	e9500	e7800
2	e6000	e6200	e9000	e11800	e8600	e7400	e12100	e10800	e20500	e7800	e9200	e8400
3	e6000	e6300	e9500	e11000	e9200	e7200	e12300	e10600	e22000	e7900	e9100	e13500
4	e5800	e6500	e9000	e12000	e9600	e7400	e12500	e10400	e23100	e8200	e9100	e16500
5	e5400	e6000	e7000	e11000	e9100	e8100	e13700	e10200	e24100	e8400	e9000	e18000
6	e5400	e8000	e8000	e11500	e7200	e9500	e14500	e9600	e24500	e8400	e8600	e18000
7	e5100	e7000	e8000	e12000	e5600	e10800	e17000	e8800	e26000	e8100	e8800	e17800
8	e6000	e8500	e7000	e11000	e5600	e11800	e18900	e8700	e25500	e7200	e9000	e20000
9	e6000	e7000	e8000	e11000	e6200	e12500	e20000	e8200	e25000	e6800	e9200	e25000
10	e5800	e7000	e7400	e11200	e7000	e13000	e20000	e8200	e24500	e6200	e9400	e26000
11	e5100	e9000	e6000	e12000	e5800	e13500	e19500	e8100	e24000	e6000	e9400	e26800
12	e5400	e10000	e8000	e13000	e6100	e13900	e18000	e8100	e23000	e6000	e9300	e27800
13	e5000	e10000	e8000	e15000	e6600	e14100	e15500	e7800	e22000	e6200	e9000	e28000
14	e6600	e10000	e7200	e20000	e6500	e14200	e13400	e7400	e21000	e6000	e8600	e30000
15	e7000	e11200	e7000	e21000	e7600	e14000	e12500	e7200	e19500	e6100	e8100	e31000
16	e7200	e13000	e6400	e17000	e8000	e14000	e12000	e7000	e17500	e5800	e7800	e32000
17	e7400	e14000	e7400	e17000	e6600	e14000	e11800	e7200	e15500	e5600	e7000	e33000
18	e7000	e15000	e7000	e14000	e6800	e14100	e11600	e7600	e14000	e5600	e6200	e33000
19	e6400	e15000	e6400	e12000	e6000	e14200	e11200	e7700	e12000	e5800	e5800	e32000
20	e7500	e15000	e8000	e7000	e5800	e14200	e11000	e7500	e11000	e6000	e5600	e32000
21	e7500	e15500	e7000	e7400	e6000	e14100	e11000	e7700	e10000	e7400	e5700	e31000
22	e6800	e17000	e7400	e7800	e6000	e14000	e10800	e7800	e9800	e9200	e5900	e30000
23	e7500	e12000	e7600	e7600	e7000	e14100	e10800	e8000	e9500	e10500	e6000	e28000
24	e6400	e11500	e7500	e7000	e7800	e13000	e10800	e8800	e9300	e11800	e6000	e27000
25	e7400	e12000	e8600	e6000	e7800	e12500	e11000	e9500	e9000	e12200	e6300	e26000
26	e7000	e13000	e8800	e7400	e7800	e13000	e11000	e10000	e8600	e12000	e6600	e26000
27	e6300	e8600	e9000	e6800	e7800	e13200	e11000	e10600	e8300	e11000	e7300	e25000
28	e6200	e8000	e10000	e7400	e7800	e13000	e11000	e11800	e8000	e10900	e7700	e23000
29	e6200	e8000	e11000	e7200	---	e12900	e11000	e13200	e7800	e10500	e8000	e18000
30	e6300	e9000	e10000	e6800	---	e12700	e11000	e14000	e7600	e10000	e7600	e16000
31	e5800	---	e11000	e6600	---	e12500	---	e15000	---	e9800	e7600	---
TOTAL	196000	305500	251200	340500	200300	380300	398900	288400	500600	251200	242400	726600
MEAN	6323	10180	8103	10980	7154	12270	13300	9303	16690	8103	7819	24220
MAX	7500	17000	11000	21000	9600	14200	20000	15000	26000	12200	9500	33000
MIN	5000	6000	6000	6000	5600	7200	10800	7000	7600	5600	5600	7800

CAL YR 1988 TOTAL 4786600 MEAN 13080 MAX 40000 MIN 4100
WTR YR 1989 TOTAL 4081900 MEAN 11180 MAX 33000 MIN 5000

e Estimated

05570520 ILLINOIS RIVER AT POWER COMPANY AT HAVANA, IL

LOCATION.--Lat 40°16'49", long 90°04'53", in NW1/4SE1/4 sec.11, T.21 N., R.9 E., Mason County, Hydrologic Unit 07130003, at the Illinois Power Company water intake, 1.3 mi south of Havana, 1.9 mi downstream from Spoon River, and at mile 118.6.

DRAINAGE AREA.--18,300 mi^2, approximately.

PERIOD OF RECORD.--Water years 1978 to current year.

REVISED RECORDS.--WDR IL-81-2: 1980.

REMARKS.--Discharges are from Illinois River at Havana (station 05570500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
NOV											
07...	1030	17002	17002	7000	692	7.70	8.0	--	10.8	28	600
DEC											
20...	1030	17002	17002	8000	835	8.10	3.0	46	14.7	23	K550
JAN											
25...	1030	17002	17002	6000	823	8.20	4.0	20	13.9	28	K140
MAR											
01...	1100	17002	17002	7400	997	8.20	2.0	7.9	14.7	20	480
APR											
04...	1100	17002	17002	12500	880	7.90	10.0	12	10.6	25	960
MAY											
22...	1100	17002	17002	7800	856	8.10	21.0	3.8	5.3	24	3400
JUN											
22...	1030	17002	17002	9800	753	8.00	27.0	8.1	7.1	29	K300
JUL											
31...	1100	17002	17002	9800	645	8.00	27.5	18	6.1	20	K120
SEP											
11...	1030	17002	17002	26800	498	7.40	21.0	39	6.9	22	K300

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3 (00902)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
NOV											
07...	240	240	57	56	24	24	54	54	4.7	4.4	49
DEC											
20...	350	350	88	87	33	32	47	48	4.9	4.7	--
JAN											
25...	310	310	76	75	29	29	48	49	3.4	3.4	46
MAR											
01...	350	350	90	87	34	33	79	79	4.8	4.6	85
APR											
04...	330	330	80	79	32	31	57	57	3.7	3.5	52
MAY											
22...	300	300	73	72	29	29	57	57	3.5	3.1	63
JUN											
22...	320	320	81	77	31	30	39	38	4.1	3.1	69
JUL											
31...	250	250	59	57	26	25	38	38	4.5	4.3	82
SEP											
11...	180	180	48	44	20	18	20	19	4.3	4.7	96

Reference Number 7

ISWS-75-BUL60(12)
BULLETIN 60-12
STATE OF ILLINOIS
DEPARTMENT OF REGISTRATION AND EDUCATION

Public Groundwater Supplies in Mason County

by DOROTHY M. WOLLER and JAMES P. GIBB

ILLINOIS STATE WATER SURVEY
URBANA
1975

PUBLIC GROUNDWATER SUPPLIES IN MASON COUNTY

by Dorothy M. Woller and James P. Gibb

Introduction

This publication presents all available information on production wells used for public groundwater supplies in Mason County. Bulletin 60, which is divided by county into separate publications, supersedes Bulletin 40 and its Supplements 1 and 2.

The definition of public water supply as contained in the Environmental Protection Act of 1970 was used to determine those water systems and wells to be included. Systems and wells described furnish water for drinking or general domestic use in: 1) incorporated municipalities; 2) unincorporated communities where 10 or more separate lots or properties are being served or are intended to be served; 3) state-owned parks and memorials; and 4) state-owned educational, charitable, or penal institutions.

This report includes separate descriptions for groundwater supplies of 5 municipalities in Mason County. These are preceded by brief summaries of the groundwater geology of the county and the development of groundwater sources for municipal use. An explanation of the format used in the descriptions is also given.

Acknowledgments. This report was prepared under the general direction of Dr. William C. Ackermann, Chief of the Illinois State Water Survey, and John B. Stall, Head of the Hydrology Section. The work was done under the direct guidance of William H. Walker, Hydrologist. Mrs. J. L. Ivens and Mrs. P. A. Motherway edited the manuscript, and Mrs. Suzi S. O'Connor typed the camera-copy. The chemical analyses, unless otherwise stated, were made by personnel of the Water Survey Chemistry Section under the supervision of Laurel M. Henley. The analyses made by personnel of the Illinois Environmental Protection Agency were under the supervision of Ira M. Markwood. Ross D. Brower, Assistant Geologist, Illinois State Geological Survey, reviewed the geological discussion. Grateful acknowledgment also is given to consulting engineers, well drillers, water superintendents, and municipal officials who have provided valuable information used in this report.

Geology

The geology of Mason County in central Illinois is described generally in Illinois State Geological Survey Circular 248, *Groundwater Geology in East-Central Illinois,* and in more detail in the State Water Survey and Geological Survey Cooperative Ground-Water Report 3, *Preliminary Report on Ground-Water Resources of the Havana Region in West-Central Illinois.* The following brief discussion of geologic conditions in the county is taken largely from these publications. For a more detailed definition of the geology in this portion of the state, the reader is referred to the State Geological Survey which is located on the University of Illinois campus, Urbana.

Sand and gravel deposits underlying Mason County constitute one of the largest underdeveloped aquifers in the state. This area is a wide, bedrock lowland that was formed at the confluence of the ancient Mississippi and Mahomet Rivers and is now buried beneath a thick mantle of glacial deposits, mainly sand and gravel.

The deposits include ancient stream fill and later glacial outwash that poured down the Illinois River Valley. In the western portion of the county the deposits range in thickness from about 100 to 150 ft and are composed of sand and gravel from land surface to the underlying bedrock units. In the upland areas in the southeastern part of the county the glacial materials range in thickness from about 200 to 300 ft and are composed of sand and gravel at the base overlain by glacial till.

Properly designed and developed wells tapping these deposits should yield 1 million gallons per day with moderate drawdowns. An estimated 350 million gallons per day could potentially be developed from the unconsolidated deposits in the Havana region which includes Mason County.

Pennsylvanian and Mississippian age rocks underlie the glacial deposits in Mason County and are not generally developed as a source for groundwater. Rocks beneath the Mississippian units contain water that is too highly mineralized for most purposes.

Groundwater Development for Municipal Use

Sand and gravel deposits in the unconsolidated materials above bedrock are tapped as the sources for municipal water supplies at Easton, Havana, Manito, Mason City, and San Jose. There are presently 11 municipal production and standby wells tapping these aquifers to depths ranging from 78 to 222 ft. Their reported yields range from 60 to 1000 gpm depending primarily upon the type of well constructed and the permeability, thickness, and areal extent of the sand and gravel unit tapped by each well. Estimated production from these wells averaged about 1,148,000 gpd in 1972. Past and present analyses of water they produce indicate that the iron content ranges from 0.0 to 4.6 mg/l, and the hardness from 140 to 341 mg/l. Groundwater for the municipal supplies of Easton and San Jose is aerated, filtered, chlorinated, and fluoridated. The water for Havana, Manito, and Mason City is fluoridated.

Case histories of large-capacity wells in the Mason County area reveal a rapid decline in well yields, often resulting in costly well repairs and eventual well abandonment. This deterioration can often be traced to overpumping in many of the wells. Overpumping in this instance refers to pumping rates high enough to cause migration of fine-grained material from the aquifer toward the well face, thereby lowering the permeability of the aquifer in the immediate vicinity of the well and subsequent large reductions in well yields. In some cases the entrance velocities become high enough to carry fine sand through the well screen. It is important that wells be properly designed to prevent the entrance of fine material into wells and that pumping rates be limited to those that will not cause rapid deterioration in yield.

Format

In this publication the descriptions of public groundwater supplies are presented in alphabetical order by place name.

The U. S. Census of population for 1970 is given at the beginning of each description.

The number of services and quantity of water distributed at each supply are given where available for the earliest and the latest reported values.

Individual production wells for each supply are described in the order of their construction. The description for each well includes the *aquifer tapped, date drilled, depth, driller, legal location, elevation in feet above mean sea level, log, construction features, yield, pumping equipment, and chemical analyses.*

When available sample study logs by the Illinois State Geological Survey are presented. When these are not available, drillers logs are used as reported. Commonly used drillers terms such as clay, silt, or pebbly clay generally are synonymous with the glacial tills tabulated by the State Geological Survey.

The screen sizes given in this publication are for continuous slot screens. Slot sizes given indicate the width of the slot openings in thousandths of an inch. For example, a 20 slot screen has slot openings 0.020 in. wide and a 100 slot screen has slots 0.100 in. wide.

Abbreviations Used

ft	foot (feet)
gal	gallon(s)
gpd	gallons per day
gpm	gallons per minute
hp	horsepower
hr	hour(s)
in.	inch(es)
ID	inside diameter
Lab.	laboratory
me/l	milliequivalents per liter
mg/l	milligrams per liter
min	minute(s)
No.(s)	number(s)
OD	outside diameter
pc/l	picocuries per liter
R	range
rpm	revolutions per minute
T	township
TDH	total dynamic head

1600 services Water Operating Plant
90 Condos
3610 #4 primary
#2 back up #5 stand-by

HAVANA

The city of Havana ~~(4376)~~ installed a public water supply in 1889. Two wells (Nos. 2 and 4) are in use. In 1950 there were 1600 services, all metered; the average daily pumpage was 558,000 gpd. In 1972 there were 1660 services, all metered; the estimated average and maximum daily pumpages were 700,000 and 1,200,000 gpd, respectively. The water is fluoridated.

Water was initially obtained from 10 wells completed in 1889 to depths of 72 ft. The wells were located at the waterworks pumping station two blocks east of the Court House Square on the north side of Main St., approximately 1500 ft S and 850 ft W of the NE corner of Section 1, T21N, R9W. Two of the wells were located 12 ft apart within the pumping station. The other eight were located in two pits just outside the station. All 10 of the wells were within 60 ft of each other. The wells were cased with 6-in. pipe from the floor of the 15-ft deep by 16-ft diameter pits to a depth of 52 ft followed by 20 ft lengths of Cook screen. In November 1914 the nonpumping water level was reported to be 30 ft below land surface. All of these wells were abandoned and sealed prior to 1938.

WELL NO. 1, finished in sand and gravel, was completed in 1930 to a depth of 85 ft by the Thorpe Concrete Well Co., Alton. This well was abandoned about 1965 and sealed in 1968. The well was located 2 blocks east of the business district on High and Main Sts., approximately 1500 ft S and 350 ft W of the NE corner of Section 1, T21N, R9W. The land surface elevation at the well is approximately 468 ft.

The well was cased with 26-in. ID by 36-in. OD blank concrete pipe from 1.3 ft above land surface to a depth of 65 ft. A porous concrete screen of the same size extended from 65 to 85 ft.

In April 1938, the nonpumping water level was reported to be 33 ft below land surface.

A mineral analysis of a sample (Lab. No. 83962) collected July 28, 1938, showed the water to have a hardness of 197 mg/l, total dissolved minerals of 232 mg/l, and an iron content of 0.07 mg/l.

WELL NO. 2, finished in sand and gravel, was completed in 1942 to a depth of 85 ft (originally drilled to 90 ft) by C. B. Layman, Havana. The well is located in the east section of the pump station directly over the old coal bin, approximately 1530 ft S and 330 ft W of the NE corner of Section 1, T21N, R9W. The land surface elevation at the well is approximately 468 ft.

A 12-in. diameter hole was drilled to a depth of 85 ft. The well is cased with 12-in. steel pipe from 1.2 ft above the pump station floor to a depth of 70 ft followed by 15 ft of 12-in. No. 40 slot Cook screen.

In February 1948, the well reportedly produced 950 gpm with a drawdown of 7 ft from a nonpumping water level of 22 ft below the pump base.

In 1962 and 1966, this well was cleaned and acidized by the Chris Ebert Co., Washington. The original well capacity was reportedly restored each time.

The pumping equipment presently installed is a 4-stage Fairbanks-Morse vertical turbine pump rated at 1000 gpm and powered by a 60-hp 1755 rpm Fairbanks-Morse electric motor.

A mineral analysis of a sample (Lab. No. 113476) collected February 16, 1948, after pumping for 15 min, showed the water to have a hardness of 186 mg/l, total dissolved minerals of 232 mg/l, and an iron content of 0.2 mg/l.

WELL NO. 3, finished in sand and gravel, was completed in 1952 to a depth of 113 ft by William M. Ebert, Washington. This well was abandoned about 1965 and sealed in 1968. The well was located at the NE corner of North Pearl and East Main Sts., approximately 1350 ft S and 800 ft W of the NE corner of Section 1, T21N, R9W. The land surface elevation at the well is approximately 490 ft.

A 12-in. diameter hole was drilled to a depth of 113 ft. The well was cased with 12-in. pipe from 1.5 ft above the pumphouse floor to a depth of 78 ft followed by 35 ft of 12-in. Johnson screen. The screened section from top to bottom consisted of 10 ft of No. 40 slot, 3 ft of No. 50 slot, and 22 ft of No. 20 slot.

Upon completion, the well reportedly produced 635 gpm for 5 hr with a drawdown of 21.5 ft from a nonpumping water level of 55.0 ft.

A mineral analysis of a sample (Lab. No. 130814) collected December 12, 1952, after pumping for 5 hr at 635 gpm, showed the water to have a hardness of 177 mg/l, total dissolved minerals of 197 mg/l, and an iron content of 0.4 mg/l.

WELL NO. 4, finished in sand and gravel, was completed in July 1960 to a depth of 78 ft by the Chris Ebert Co., Washington. The well is located about 75 ft W of Well No. 2 in a building connected to the main pumping station, approximately 1530 ft S and 405 ft W of the NE corner of Section 1, T21N, R9W. The land surface elevation at the well is approximately 470 ft.

The well is cased with 12-in. pipe from 1.5 ft above the pumphouse floor to a depth of 58 ft followed by 20 ft of 12-in. No. 30 slot Johnson screen.

Upon completion, the well reportedly produced from 900 to 1000 gpm for 8 hr with a drawdown of 26 ft from a nonpumping water level of 24 ft below land surface.

In 1966, this well was acidized by the Chris Ebert Co., Washington. The original well capacity was reportedly restored.

The pumping equipment presently installed is a Fairbanks-Morse Pomona vertical turbine pump set at 54 ft, rated at 1000 gpm, and powered by a 60-hp Fairbanks-Morse electric motor.

at the Plant → #2+#4 corner of East Main (N side) High St.

#5 middle Chester Youth Center in Rice Park btwn E. Adams + E. Washington S Promenade

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. B105916) is for a water sample from the well collected January 10, 1973, after 45 min of pumping at 650 gpm.

WELL NO. 4, LABORATORY NO. B105916

		mg/l	*me/l*			*mg/l*	*me/l*
Iron	Fe	0.16	0.01	Silica	SiO_2	16	
Manganese	Mn	0.14	0.00	Fluoride	F	0.0	
Ammonium	NH_4	0		Boron	B	0.1	
Sodium	Na	6	0.26	Nitrate	NO_3	9.7	0.16
Potassium	K	1.1	0.03	Chloride	Cl	8	0.23
Calcium	Ca	52	2.60	Sulfate	SO_4	45	0.94
Magnesium	Mg	16.5	1.36	Alkalinity (as $CaCO_3$)		140	2.80
Arsenic	As	0.00		*Hardness (as $CaCO_3$)*		197	
Barium	Ba	0.0					
Copper	Cu	0.00		Total dissolved			
Cadmium	Cd	0.00		minerals		240	
Chromium	Cr	0.00					
Lead	Pb	0.00		pH (as rec'd)		8.2	
Mercury	Hg	0.0000		Radioactivity			
Nickel	Ni	0.0		Alpha *pc/l*		0.9	
Selenium	Se	0.00		±deviation		0.8	
Silver	Ag	0.00		Beta *pc/l*		2.9	
Zinc	Zn	0.0		±deviation		1.3	

WELL NO. 5, finished in sand and gravel, was completed in September 1974 to a depth of 96 ft by Luhr Bros., Inc., Columbia. As of October 1974, this well had not been placed in service. The well is located near the eastern edge of the city, approximately 2170 ft S and 175 ft E of the NW corner of Section 6, T21N, R8W. The land surface elevation at the well is approximately 470 ft.

A 32-in. diameter hole was drilled to a depth of 96.5 ft. The well is cased with 12-in. pipe from 3 ft above land surface to a depth of 46 ft followed by 50 ft of 12-in. Johnson Everdur screen. The screened section from top to bottom consists of 9.8 ft of No. 50 slot, 33.8 ft of No. 20 slot, and 6.4 ft of No. 15 slot. The annulus between the bore hole and casing-screen assembly is filled with concrete from 0 to 17 ft and with No. 1 Northern gravel from 17 to 96 ft.

A drillers log of Well No. 5 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Sand, brown, fine	10	10
Sand, tan, fine	5	15
Sand, tan, medium fine	5	20
Sand, tan, fine	5	25
Sand, tan, medium	5	30
Sand, tan, fine	5	35
Sand, tan, medium fine	10	45
Sand, gray, coarse	5	50
Sand, gray, very coarse	5	55
Sand, gray, coarse	10	65
Sand, gray, medium coarse	10	75
Sand, gray, medium	20	95
Sand, gray, medium with cobbles to 3 in. size	1.5	96.5

A production test was conducted on September 19, 1974, by representatives of the driller, the city, the State Water Survey, and Casler, Houser, Hutchison, Inc., Consulting Engineers. After 3 hr of pumping at rates ranging from 1130 to 966 gpm, the final drawdown was 10.16 ft from a nonpumping water level of 19.74 ft below land surface. Thirty min after pumping was stopped, the water level had recovered to 20.32 ft. On the basis of the production test data, it was estimated that this well would yield 1000 gpm (1,440,000 gpd) on a long-term basis.

As of October 1974, the permanent pump had not been installed.

A partial analysis of a sample (Lab. No. 196914) collected during the initial production test, after pumping for 3 hr at 1000 gpm, showed the water to have a hardness of 162 mg/l, total dissolved minerals of 210 mg/l, and an iron content of 0.0 mg/l.

MANITO

The village of Manito (1334) installed a public water supply in 1937. Two wells (Nos. 2 and 3) are in use and another well (No. 1) is available for emergency use. In 1949 there were 230 services, all metered; the estimated average daily pumpage was 40,000 gpd. In 1972 there were 520 services, 12 metered; the estimated average and maximum daily pumpages were 150,000 and 250,000 gpd, respectively. The water is fluoridated.

WELL NO. 1, finished in sand and gravel, was completed in July 1937 to a depth of 81 ft by Chris Ebert, Washington. This well is available for emergency use. The well is located at the southeast corner of Main and Broadway Sts. inside the treatment plant at the base of the elevated tank, approximately 2300 ft N and 1650 ft W of the SE corner of Section 21, T23N, R6W. The land surface elevation at the well is approximately 500 ft.

A 10-in. diameter hole was drilled to a depth of 81 ft. The well is cased with 10-in. pipe to a depth of 61 ft followed by 20 ft of 10-in. Johnson brass screen. The screened section from top to bottom consists of 4 ft of No. 25 slot, 7 ft of No. 12 slot, and 9 ft of No. 25 slot.

A production test was conducted by the State Water Survey on July 15-16, 1937. After 24 hr of pumping at a rate of 255 gpm, the drawdown was 7.0 ft from a nonpumping water level of 33.5 ft below the top of the casing.

On February 11, 1948, the well reportedly produced 120 gpm for 40 min with a drawdown of 2 ft from an original airline reading of 10 ft. The length of the airline was unknown.

The pumping equipment presently installed consists of a 7 1/2-hp 1740 rpm Fairbanks-Morse electric motor (No. 332477), a 6-in., 7-stage Fairbanks-Morse turbine pump (No. 6920) rated at 120 gpm, and 30 ft of 5-in. column pipe.

Reference Number 8

Brent Manning
Director

John W. Comerio
Deputy Director

Bruce F. Clay
Assistant Director

Illinois Department of Conservation
life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601

August 24, 1992

Mr. Tim J. Murphy
LPC/IL EPA
P.O. Box 19276
Springfield, IL 62794-9276

Re: ILD #025392069

Dear Mr. Murphy:

Per your August 4, 1992 request the Department has reviewed the above noted CERCLIS Project in Havana, Mason County, Illinois.

Based on our review we have determined there are no sensitive resources (form attached) on-site or in the 0 - ¼ or ¼ - ½ mile radius of the site. Along the waterpath is found a rookery containing:

Casmerodius albus	Great Egret	SE
Haliaeetus leaucocephalus	Bald Eagle	FE, SE
Boltonia decurrens	Deccurent False Aster	FE, SE
Platanthera flava	Tubercled orchid	ST

SE = State Endangered
ST = State Threatened
FE = Federally Endangered

The sensitive resources locations have been indicated on the enclosed map.

Thank you for the opportunity to comment.

Sincerely,

Richard W. Lutz

Richard W. Lutz
Acting Supervisor
Division of Impact Analysis

RECEIVED
SEP 02 1992
IEPA/DL.

RWL:ts

Att: sensitive areas form
map showing sensitive resources

DEPARTMENT OF CONSERVATION IDENTIFICATION OF ENVIRONMENTAL SENSITIVE AREAS

I.D # 025392069

— = none in area

SENSITIVE ENVIRONMENTS	TARGET DISTANCE CATEGORIES: On-site	A 1/4 mile	1/4-1/2 mile	stream milage
I. Critical habitat for Federally designated or proposed endangered or threatened species	—	—	—	*
II. Habitat known to be used by Federally designated or proposed endangered or threatened species	—	—	—	* B. EAGLE, Downy False ASTER
III. State wildlife refuge	—	—	—	* ANDERSON LAKE
IV. Spawning areas critical for the maintenance of fish/ shellfish species within a river system	—	—	—	—
V. Terrestrial areas utilized by large or dense aggregations of verbebrate animals for breeding	—	—	—	* ROOKERY
VI. Habitat known to be used by State designated or threatened species	—	—	—	*
VII. Habitat known to be used by a species under review as to its Federal endangered or threatened status	—	—	—	—
VIII. State lands designated for wildlife or game management	—	—	—	* ANDERSON LAKE
IX. State designated natural area	—	—	—	—
X. Particular areas, relatively small in size, important to the maintenance of unique biotic communities	—	—	—	* ROOKERY

If any of the sensitive areas identified above exist within the designated target distance limits, please put an asterisk (*) in the appropriate column.